THE
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BRITANNICA

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EDITION

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on 17 May, 2019

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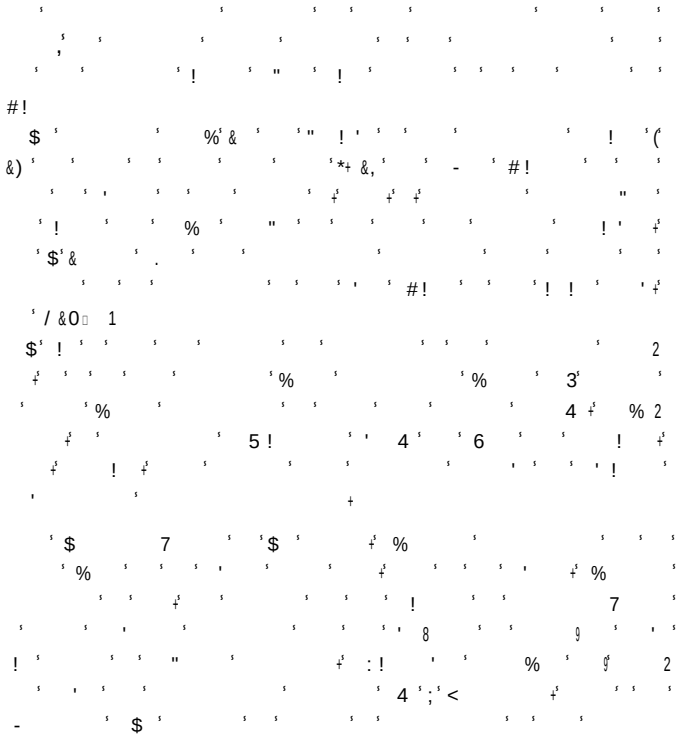

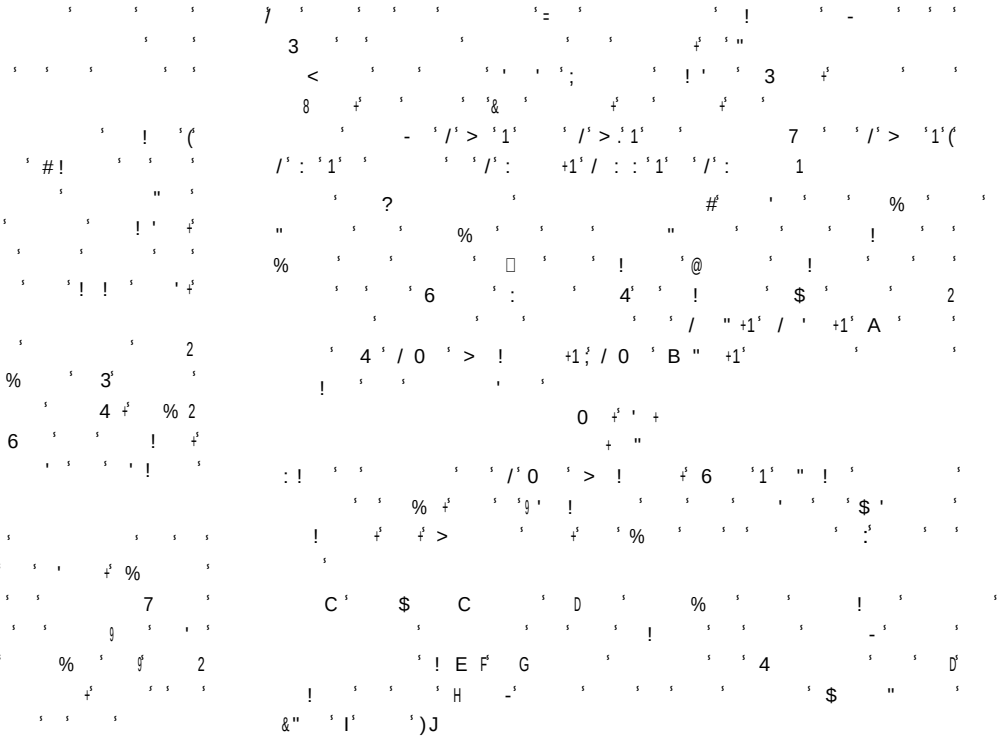

"0 '	"0 11 # '	E'0 6	E'0 6(8 '	F"#2'F(6	'G'#2'F#6(8
"23 4'	.#"# '42'	E'7	E'7'9'1	F - 2	F'--('16'' ('F' 5'1 1
"63'	" 37'8 1-'8	E'6	E'6 57 1-'8	F2	F2 6(8
, (9 '	: 2 9 '8' " 5'	E'6 1	E'62' 5'=16'8<1	57'8	57'8826
'3 '	'3 (6- 2	E'1	E'1 -(6'8<	F-6'8 =1	F7'8826'=16'8<1
"6''	"6'0'9'	E'	E' '	5729	5729 1-
"6O'8'	"6O'8 '	E' F 'E -17'F(6 90 '	F721	F7217 2
"63'	"632 '	E257'	E257 '8'6'8<	?	F7 62
"61 '	"6'1 '	E2<1'	E2< (<17 2	57 (8	57 (8(6(3
"61 #('	" 1'52 ; (' 82	E2-D4*83	E263 '8' F(83(D 8(< 2	2(	5(8-
"6-''	"6O2 -'	F(83('I 22'4-'-2.	F(6(	F(6('<(
'8'-'	'8'-(9	E263	E263 9	F(6(8	F(6(90 '
"8< 1'	"8<' 9 '8'=16'8<1	E2	E2 9 <'1	F588	J '25- 5 -
"83'	" (6'	E2 1	E2 17 2	F(8	F(9J'K'
"8-' ('	4(-7'#(6' '>236(81'	OOO6	0 O6 5'6	2(1	F(15'
" 'O'	" 'O '	O6(6	0 (6(3 '	? A	F -''A 5''
' 57'	' 57 -25- 2	0	E(E ''	F ('-4='	F ('- ''46' (8 ''
' 57'2'	' 57'2(6(3	E(	E(82('	5 1-'66	5 1-'66(3 '#7 '
' 57 #'	' (76#26'3 ?	E(18	E(18 ''	F	F O'
" 5-'	@(-7'>(6' 'A23 (81	'02-'	7(D 8 '	F 90	F 902 '8<
" 3'	" 328- 8'	E 'B' '	E BK	F'	2 F<'#2' 2 <2'=16'8<1'
" 6B'	" B(8'	E E " '	E -17'L'1-' " 5''	<	<' 37-2 '
" '	" '81'1	E -'	E -' 8	M'7	M'7(9< '
" 9 '	" 928 '	E =-G- 6	E -17'G '8''	M'69	M'69'- '
"17'	"17'8-	E 5 1	E 5 837'917 2'	'M F	F(6 90 ' 'M 1- 5-'(P
"1 '' C '	"1 '' C 8(	E 63	E 63' ''	M26'	M26'J' 2'
"11 8'	"11 7 0('	E	E 9 '	M28	>28 9 ' '
''1- (8'	'1- (8(9	F' "	F28- '6 " 5'	<N#-	<2#' -928-'
"-7'0'	"-7'0'15'	F'6	F'6 (8 '	MN	M2 (817 2'
"-6 ?'	"-6'8- 5' ?52'8	F " 9	F28- '6 " 92 5'	M 'G '	M -57'G '8''
" 1'	" 1- ''D 856 < 83'E(729 '.	F'901	F'90 <3217 2	< 2-'	< 5- (8' '72'< 83'
" 1- ' '	" 1- '6 '	2' 82	F'92 ((8	< 1-'	< 1- 5-'
"B'	"B(21	F'8	F'8'<'	<	< 1 (8
		F'8 =1	F'8' '=16'8<1'	M @ O8 8	> -57'@2J'G 82''

M(12- M(12-17 2'
M 7'9'
E " L1 1-' " 5''
E(L(--''<('
25(6 25562 1 '1- 5'6'
2((8 25(8(9 51'
L3 ' L3 #-'
262(2625- 5 - '
290 (6 290 (6(3 '
L83 L836'8<
283 8 283 822 83'
E# L# 1
E - L - 2'
L11 L11-'
21- 21- '
2-78(6 2-7 8(6(3
E L (#2
E'6 =1 E'66 6'8<' =16'8<1
E 8 I 86'8<
E6' I 6(<'
E(I (9 (1'
E I '852
E G8 I 2857' G '8''
I = F I 2857' =8<(?7 8''
E R " I 2857' R 21-' " 5''
G' G2(3 ''
G'9 G'90 ''
32(3 32(3 ' 7 '
32(6 32(6(3 '
G2 G2 9'8
G2 L " G2 -8'8' L '1-' " 5''
G2 4 R " G2 9'8'4 R '" 5''
G=(1 G6(521-2 17 2'
G(F'- G(6<' F('1-'
3(- 3(2 89 28-'
G UG 2252'
G 228 G 2286'8<
G8'- G '-29 '6''
G 8 G 82''
, ' , ' -
, '8-1 , '9#17 2
7' 0 7' 0(
, 'J , 'J '
72 72 '6<
, 2 2 (< , 2 2 (<17 2
, 2 -1 , 2 - (<17 2
, 2 B , 2 B23(8'
, (66 , (66'8<
, (8< , (8< '1
7S - 7(- 5 6- 2
, 83 , 83'
, 8-1 , -9- 83<(817 2
= =16'8<
6' =(J '
=52 =526'8<
=<' =<'7(
== =66 8(1
=8< =8< '8'
=8< ? =8< '8' ?52'8
=' (' C =162' (' C '8
= 2 = 26'8<
1' =16'8<1
16' =16'8<
161' 16'8<1
1-7 1-79 1
- =-'6
T F1- = (' F('1-
'9 '9 ' 5''
'# '#'8
' ' '
: '8 : '81'1
: (: (2'
: : 28- 5
; ' ; (1 '8'
; '0 ; '0 '<(
; '5 =1 ; '55'< 2' =16V8
; '3 ' ; '3(1'
; '851 ' ; '85'17 2
; 2 51 ; 2 + 21-2 37 2
; 0 ; 02 4
; 0 M21 ; 0 '8' M212 -
; 821 ; 85(6817 2
6 - 6 -2 '- 2
; (8< ; (8<(8
; W2 9 ; W2 90 3
; 5 ; 5 '
9 9' 2<

C'52 7-'52<(8 '
C'5 C'5 28B 2
C'< C'<'3'15'
C'<=1 6 '<2 ''=16'8<1
C'6 " 57 C'6' ' " 57 #26'3(
C';>2868 C'6' '>2 <81 6'
C'8 =<'8 -(0'
C'11 C'11'57 12--1
9'-7 9'-729'- 51
C' C' - 1
C< C' 6'8<
C<W C <<6212W
C2 C' 82
9257 9257'8 51
92< 92< 5 82
C2<- C2<-2 '82'8
C21(# C21(#(-'9 '
92-'66 92-'66 3
92-2((6 92-2((6(3
C2W C2W 5(
C 57 C 57 3'8
9 8 9 82 '6(3
C 88 C 8821(-'
C 11 C 11 11 ##
C(C 11(
C(89 C(89(-717 2
C(8- C(8-'8'
C(8-28 C(8-2823 (
C(C((55(
9- 9(9-
9-1 9(8-' 81
9 1 9 1 5
9 -7 9 -7(6(3
@ " @(-7' " 5'
@ " 9 @(-7' " 92 5'
@ E @2J'E 81J 5
@ F @(-7' F' (K8'
@ M' @(-7' M' (-'
@ E " @(-7 L '1-' " 5'
@20 @20 '1 '
@2 @2 '<'
@ < @2J (8<6'8<
@ G @2J'G 82'
@ , @2J' , '9#17 2
@6(@ 5' '3 '
@ 3 @ 32 '
@ @2J' 2 12
@ C2W @2J'C2W 5(
@(@((6
@(-7'8-1 @(-7' 9#-(817 2
@(-7 90 @(-7 902 6'8<
@(--1 @(-- 837'917 2
@ 4 @(''45(-'
@ 4 R @2J'4(-7' R '621
@ 0 @ 0 '
@ X @2J'X(
@ Y @2J'Y2'6'8<
? ?7 (
? 6' ? 6'7(9'
#8- ?8-' (
? 23 ? 23(8
? I 4- ? '832' I 22'4-'-2
?W(7 ?W (<17 2
>' >2881 6 '8 '
>'(? >'5 5' ?52'8
>'6 >'621- 82
#'6'2(3 #'6'2(3 '#7
>'8 E'7'9'
>' '3 >' '3 '
#'-7 #'-7(6(3
#28 8 #28 81 6'
>2 1 >2 1 '
#2- (6 #2- (6(3
#7 6(6 #7 6(6(3
#7 6(1 #7 6(1(#7
#7(- #7(-(3 '#7
#7 28 #7-28(6(3
#7 1 #7 1 51
#7 1 (; #7 1 (6(3
> =1 >7 6 ## 82' 16'8<1
#6'- #6'-2'
>(- >(- 3'6
>(- L " >(- 3 212' L ' " 5'
>(- G 68 >(- 3 212' G 82'
> A >(-(' A 5(
(# (852
> 1 > 11 '

#12 < #12 <(8 9
#- #(8-
+ 3K228
O 2 O 2025
O '271 O 22816'7<
26 26 3 (8
21 < 21 <285
A7(< A7(<21 '
A = A7(<2' =16'8<
2
A9-- A9 '8 '
A 11 A 11 '' 5
A 11 "1 A 11 '' 8' "1 '
A -6 A -6'8<
4 " ' A(8-7' " - D>'
4'7 4'7' '
4'6(3 47 (#17 2
4'6 4'6 '<(
4 "9 4(-7' " 92 5'
4' < 4' <9 '
4'1 ' 4'1 '-572J'8
4 " 1 4(-7' " 1- '6 '
4'W 4'W(8
4 F 4#8-7' F' (6 8'
4((- 45(-6'8<
1< 1F 8<
K 4 4(-7' M' F-'
428 42823'6
42 42 '
4 0 4 02 '
4 2 4 5 6
4 ; 4 2 '' ;2?82
1(5 (6 1(5 (6(3
4(9 4(92 12-17 2
4(97 8< E(9'6 6'8<
4# 4#'-'
4-' 1 49 4# <17 2
1- 1- ' -
4 < 4 <'8
4 - 4 (6
4 9 4 9'- '
4 4 2
4 1 4 112W
4 J' 4 J'B 6'8<
4 J2< 4 J2<28
4 J -B 4 J -B2 6'7<
4 4 '
T'1 M '19'8 '
T288 T28821122
T2W T2W'1
T 0 T 02-
T(3(T(3(6'8<
T '81 T '81 ''6
T '84 6 T '81 6 '8 '
T # T #(6
T 8 T 8 1 '
T T 2
T '"4 T 2 ' 8' "1 '
T 21- T 21-'8
- #(3 - #(3 '#7
K3'' K3'8<'
[: K8 -2<' : 83<(9
K 3 K 3 '
K 4 K8 -2<' 4-'-21
K 428 K##2 '42823'6
' 3 8 '
282Y 282B 26'
2- 2-2 8'
2- 5-('
66 6' 2-
- 2 9 (8-
R " \ R 21-' " 5'
R' J 5 R' J 5 17 2
R'17 R'17 83-(8
R " 1 R #1-29' " 81- '6]
R 21-9 R 21-9 (6'8<
R = R 21-' =8< 21
% R 6-17 2
R 1 R 15(81 8
R (51 R (521-2 17 2
R ' R 21-' 3 8 '
R (R (9 83
X(1 X(17 2
X (X 5'-'8
Y'8B Y'8B 0'
B((6 Y((6(3
Y Y 6 6' <

)

T ? ' T , ^

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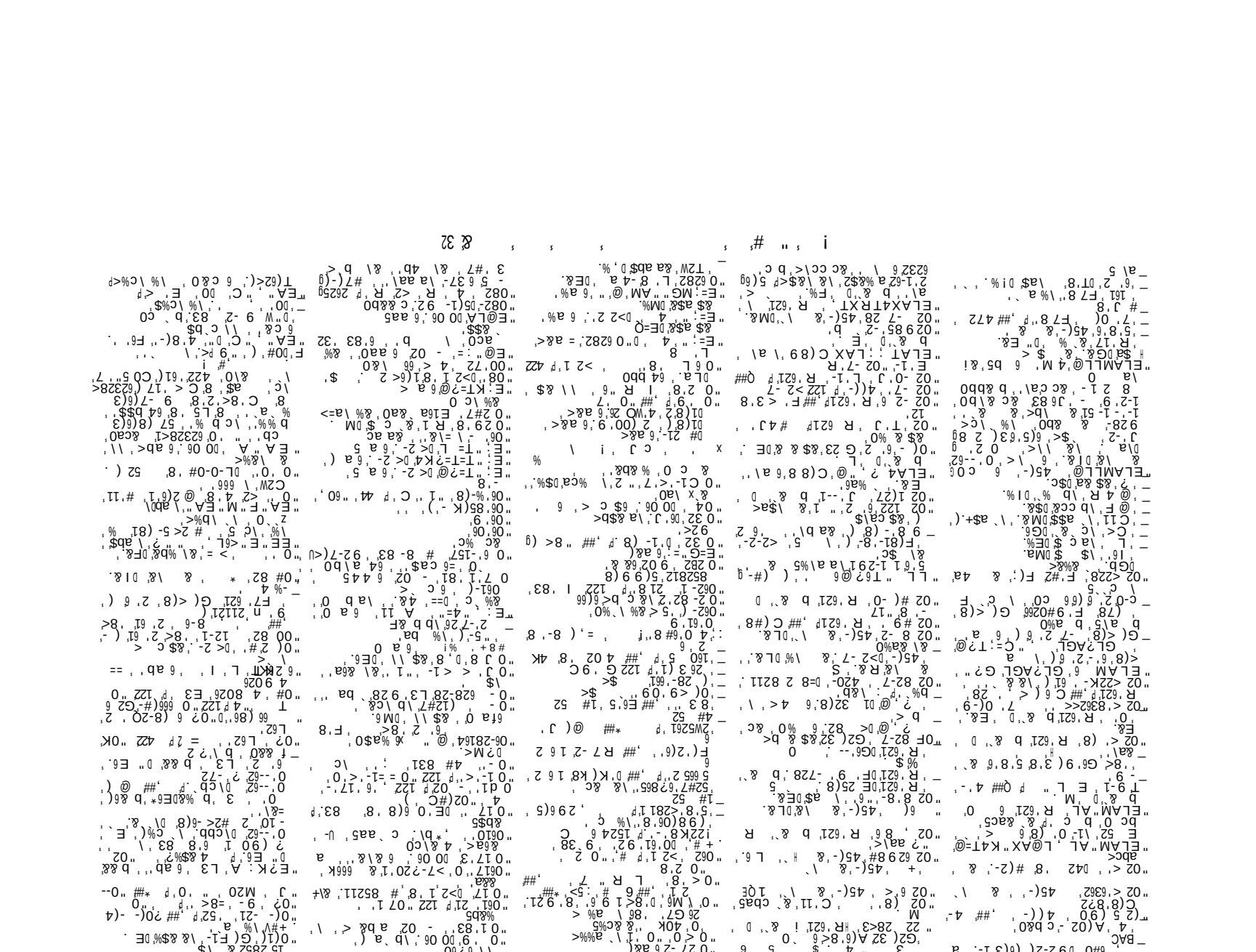
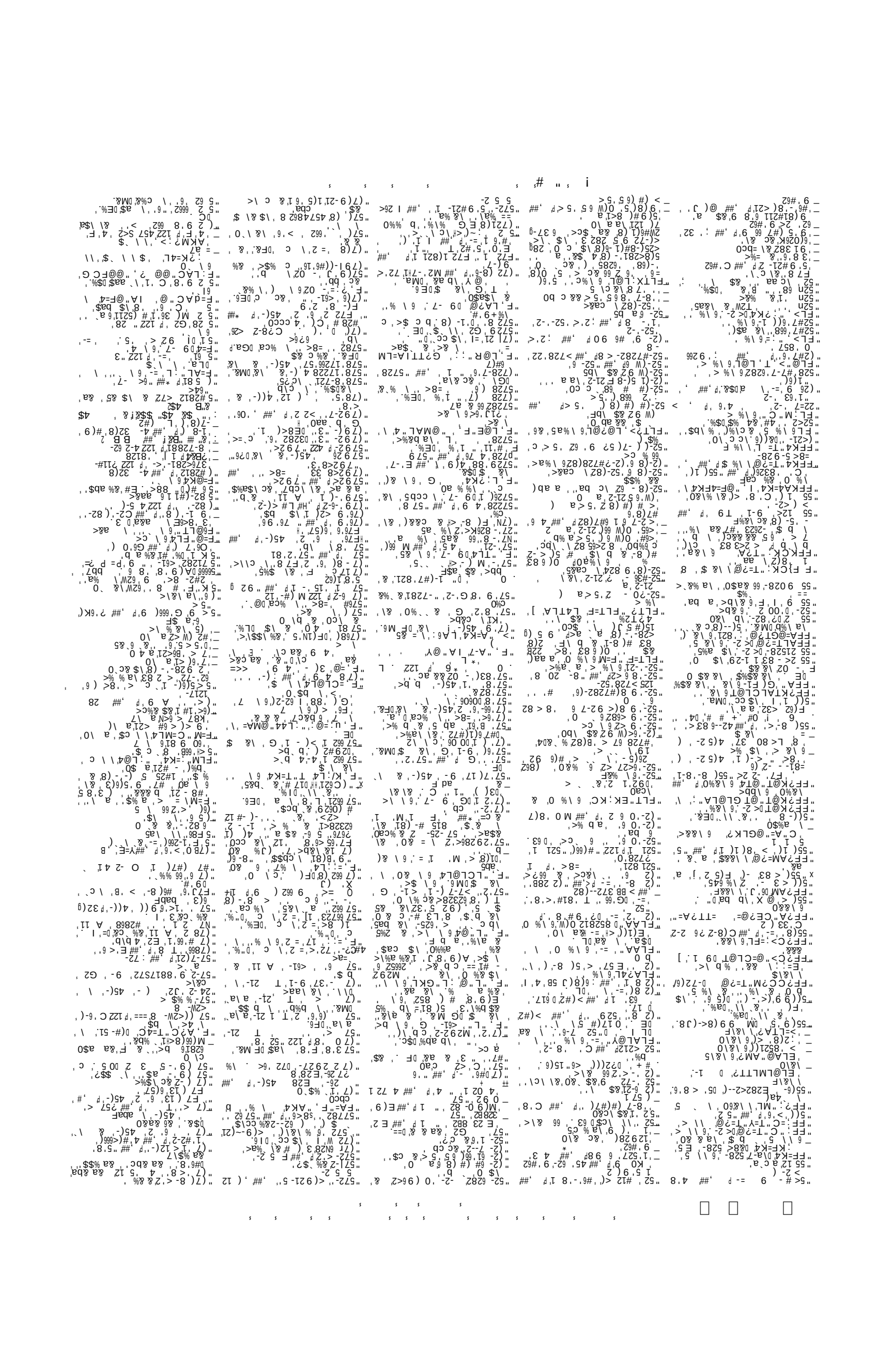
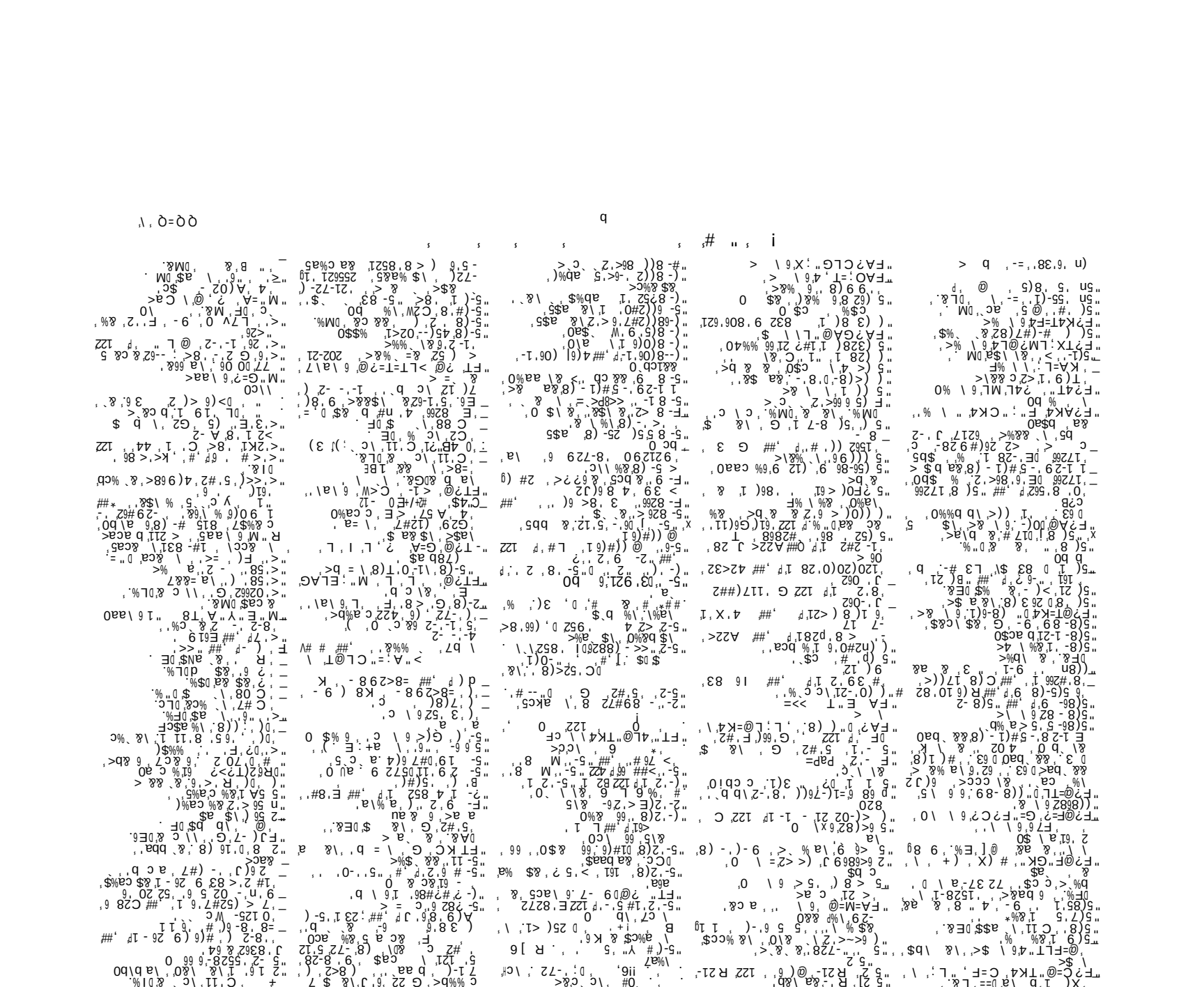
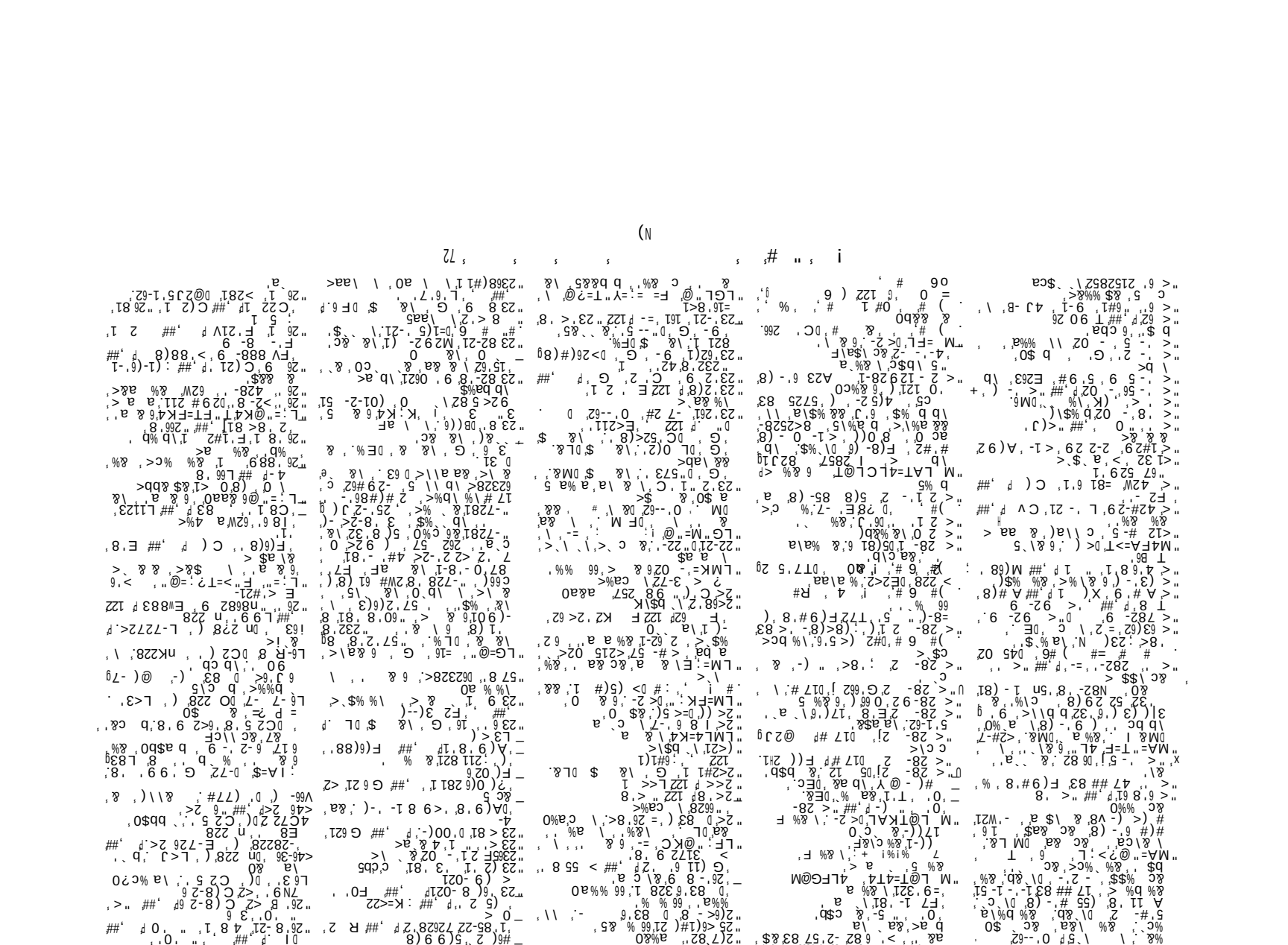


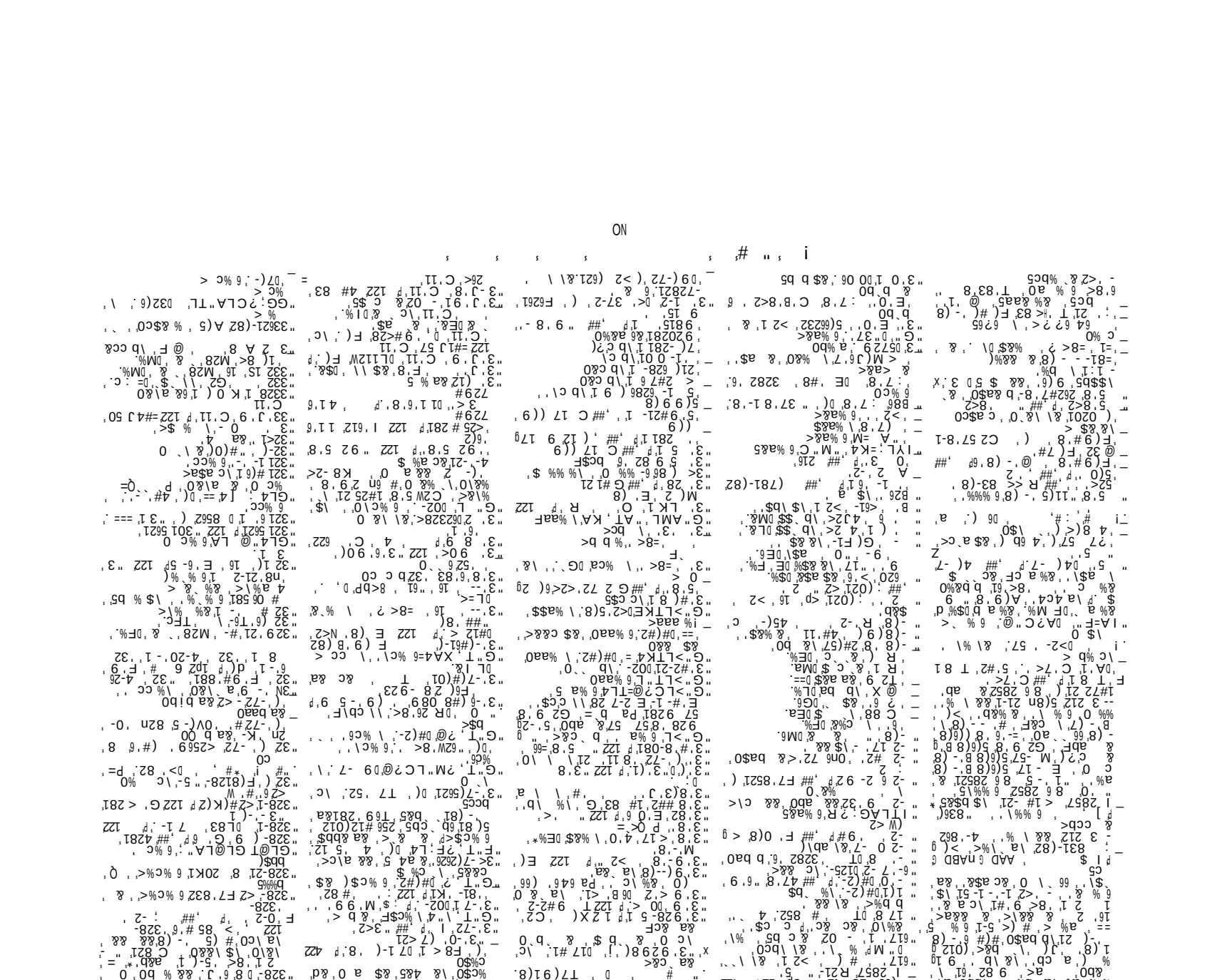




"<28#7'?'&$ a'<'
"<28#7'@ ?i'h F8 >'?
c bDa' F #' @?i'h F8 >'?
"<28#7'@ E'8 2 #((6'
O (B8Z3';21\'&i'&'D>'=',
"<2#7'@ aF? 2'1-2'9'& &aa
"<2 ' 4'7'? &'b 82'$ ' ,\c5'
"<2 0 q*n &'b 0' >2 1'?' ,##' "B2
"MLA@? 4#< 6 !b5\ ' &
"<2 6'' ' 1'&' & 0'
DLa.
"<2 10'F72 >2612B" ' 1' &%'
"<2 (!(G (F1- \& &$%D" &.&,'
"<2 (O 1'!\ \ F
"<2#7'3'& a ac$' a aab5'a
&&%$ <
$,
"<21 9 52''\a \& '
"D12-'>' ' a'%a5
"<2'(@ 2'F7'0'882!' ,
"ML C>'=?@"D<'2- '6 \b$0'
"<2 8 4#'& %$'DE&.
"ML@' " D'& \b$0' & &a
DE ' ,'a!$'?' '85'28-'
7 1-(& &ac<'56 &'<' 5' ,'-2 &'
&a&5 & c '<' 5' ,'-2 &'
\b5$ 3' 1(8' 6 ,'-2 ,'12'
62 26'-'\b bc$'
'6K'\ && 'DM
"<28'8'G2 ,'\\ 'S' D\ )C'
"ML@E4 ,<2E(O(8' %&'5
"<7N9 ,<2E(O(8' %&'5
"ML F '='E"@@L4'6 \b6<'
"ML C'?@T =';' \ b&' ' c
"<28&9 '?021'98'& &a\0'
& &'0 ' 5
"<2 0'6 \ 5
"<72 28'- D> 210 -2 '8' && &&
& &'0
DO(-' \$ a\$' D>'7 1 ' ,
& &a0
"<28(53 # 1'&)C '$<
6 1'a && '<
c 1'6 ' 6' 83 1# 1'1- < g
O (837-1 &% \b 5' 5 (#
"ML@'?=M4'6 \b\0' &\ % b5]
"M ,L4=?@' D<2 -' = 6b&''
"<21 2821'0#'7 28 '&\ %a5'
"<7 (7'- ' ,'1'7'\% b ' ,
"<7 (7'4 ,## @'6'<' --
"<7 (6 '' "1 'C ',##'M('
6'2- 8
"<2#7'3'& a ac$' a aab5'a
a &
"<2#1' ,## ' '<
c bDa' ' ?i'h F8 >'?
"<28#7'?'&$ a'DL&.
"<32 "6'\a &$'DE&.
"<32'37' 4'7 \ ,##'< ' ,
"<3 6<0I 1'8' 83'66 &%' 5'
"<7'62'4(6#<'?'##'=-'6' &
"<7'O' 6'8'?'##"B2 O' 6'8'
"5 729' ' T "1' &a %$'
D1&' &a bc$'
"MC@'6 \\%<
& CO'66 \\%<
\ \bc$
"<28'8'G2 '\\ 'S' D\ )C'
& 5
"<28'8-?2 ' #' (868'' \\'
"<3 &'&%' \%b'
"<2 8'&%' \b bc%O'
_ 3 6'& &'%' \b bc%O'
"<3 6<0I 1'8' 83'66 &%' 5'
"<7'62'4(6#<'?'##'=-'6' &
"<7'O' 6'8'?'##"B2 O' 6'8'
"5 729' ' T "1' &a %$'
D1&' &a bc$'
"MC@'6 \\%<
& CO'66 \\%<
\ \bc$
"<28'8'G2 '\\ 'S' D\ )C'
& 5
"<28'8-?2 ' #' (868'' \\'
"<3 &'&%' \%b'
"<2 8'&%' \b bc%O'
_ 3 6'& &'%' \b bc%O'
"<3 6<0I 1'8' 83'66 &%' 5'
"<37'37' 4'7 \ ,##'< ' ,



"26 1' #(81'D ,(92'f ,## 4-
-(9 6'#Z'b \'<
3261' >v8-2
"26 1' 42 28 1'f ,## 42 28-1'
"9 6' C'52<(8'5(8I' \bU
"T"FT=FK4\& c$
_ >6 1'== >65((6(-- 68#'f ,##
"9 6' C'52<(8'5(8I' \bU
"T"FT=FK4\& c$
_ >6 1'== >65((6(-- 68#'f ,##
"26 1' 42 28 1'f ,## 42 28-1'
3261' >v8-2
-(9 6'#Z'b \'<
(8' ?62(-- 5-' b \b$''
%ca<
"4 (#Z' D62328<;' = aQ4=' & '
"2 (#Z'DB((6 ;66 &a5'
"2 (#7(2a 'bo
"2 (#2'82' $ $ <' 6 &a'
"2#8 1' (78'& &'<(
"2#4 9' 8 1'%8 &40
"2#(861'
>'66'
"2#2 $2 (1' 926' 9# 1'f ,'
"2#1?2 =2- >' c $'<' \& \ %'
"2l&=&F
a'5
"2l(6 1'f *##'1(6 82'
%b5
"26(<((6('f *##'1(6 82'
83 3A'/)=
"26 -2'E263'%aa''DE6.'
"26 -'E263'%& b\ ,## "6(1-
9'852' $$<' 52!-'(9 1'5
& $%a' '1- 5- '6 J2' g
8211' P `QQ'-' '816'-(8!'
& &QO'(&\% & ' &%b\b$
"L@L4=ML CK4' D#7'6(1(#72 .
\ & c$'6 & ,11'E ,& 46 0
"L?'@' D9 1- ;'& `5' 0 -7
21-6 '6 b abc<' C'7<'2'7'
2J \c a '628-8 '
-72(&c' 5
"2('D 21-6 '6.'b c 5' ' (
"L>=@K4'I ,K'T ,'6 `
_ >6 1'== >65((6(-- 68#'f ,##
"T"FT=FK4\& c$
"9 6' C'52<(8'5(8I' \bU
"26 1' #(81'D ,(92'f ,## 4-
-(9 6'#Z'b \'<
3261' >v8-2
"26 1' 42 28 1'f ,## 42 28-1'
"9 6' C'52<(8'5(8I' \bU
"T"FT=FK4\& c$
_ >6 1'== >65((6(-- 68#'f ,##
"26 1' 42 28 1'f ,## 42 28-1'
"9 6' C'52<(8'5(8I' \bU



"GGK T=@"-?%0 D#-7,' %
\C 0
"0#157,"-9,'-,'02',45(-,' ,##
"37,7'9,'-,'02',45(-,' ,##
"37,8'-2,'-,'02',45(-,' ,##
"37,7'9,'-,'02',45(-,' ,##
"33 23'-,'DB((6 d'!,'-,'&
"33 23'-,'D#-,'&\,',
"33 23'-2 D m'-7,'=6 %0&&0'
b ,'$%,'L 2
8,'9,'&C'C5
5(0 &'-(8I' \$%&0
x"2 !J,D125-',\& ,'\&
"37I& ,'1 "C,'&\ ,' ,
"3 32',"T',"'##,'3 "<6<',
"3 6 M2,'##,'3 ,'M2
"3 32',"T',"'##,'3 "<6<',
"3 6 M2,'##,'3 ,'M2
"33 23'-(8D9 8,'=4 46?0'
%C (
"33 211 81%'\0%<
"211 2',-?12906,852 a',
C%\"# ,##,'hC=9(# ',
3 211 2
"33 02'<%0 4c\0
-(J8 6\ a0'b ab<
"33 85(0 -0D#'d a $<
\a %0
"33 66'1((<& %
"33 39'8<'\a b%&<'
"33 8'<'&$
>'< ,'&$ 0
"33 85(0 -'1'##,'L 87',<'
"33 85(0 -'1'##,'L 87',<'
"33 85(0 -'4F#'W<#'b$ '
"33 85(0 -,'16',#,'\ a'
\$D\ x"3 85(-,'1'DO'--6217 #'& &
I ,\$ cc'',DL6.
"3 8 1'0,'>2 1',6 %0 0'
"3 88 9'#'##"328
"G=?'6 %'ca0
"3 8 1'0,'>2 1',6 %0 0'
"3 8 1'0,'>2 1',6 %0 0'
"3 8 1'0,'>2 1',6 %0 0'

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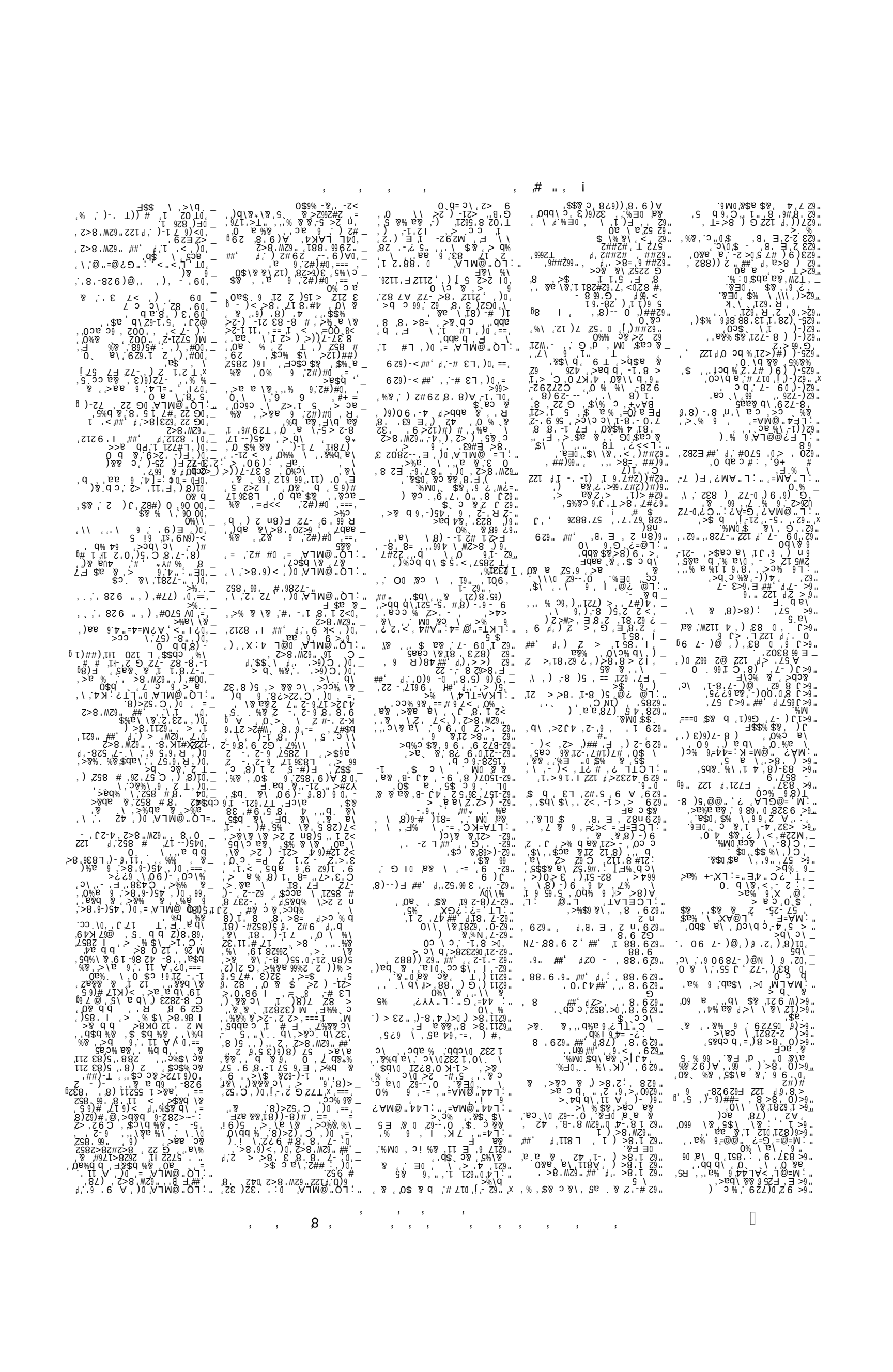

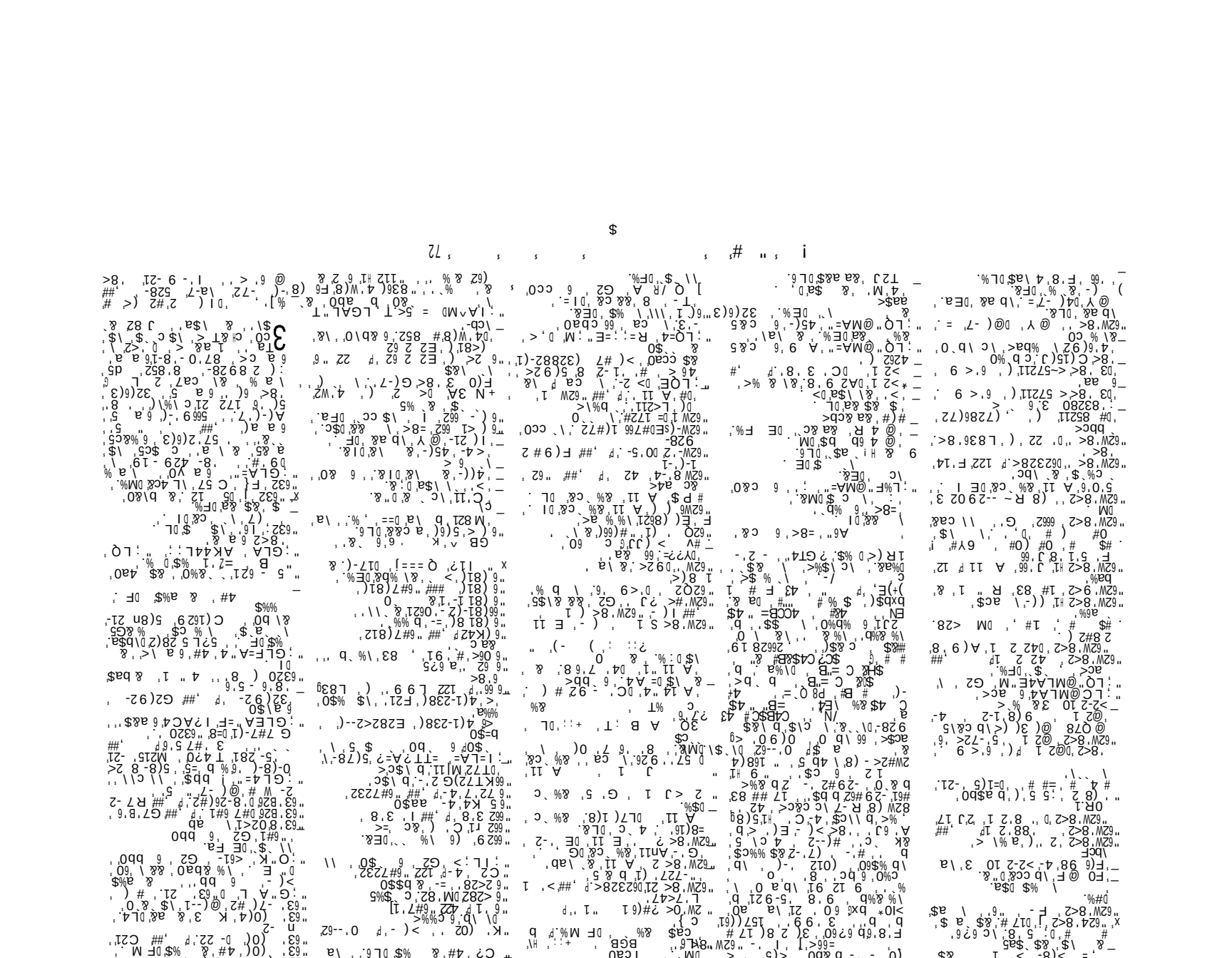

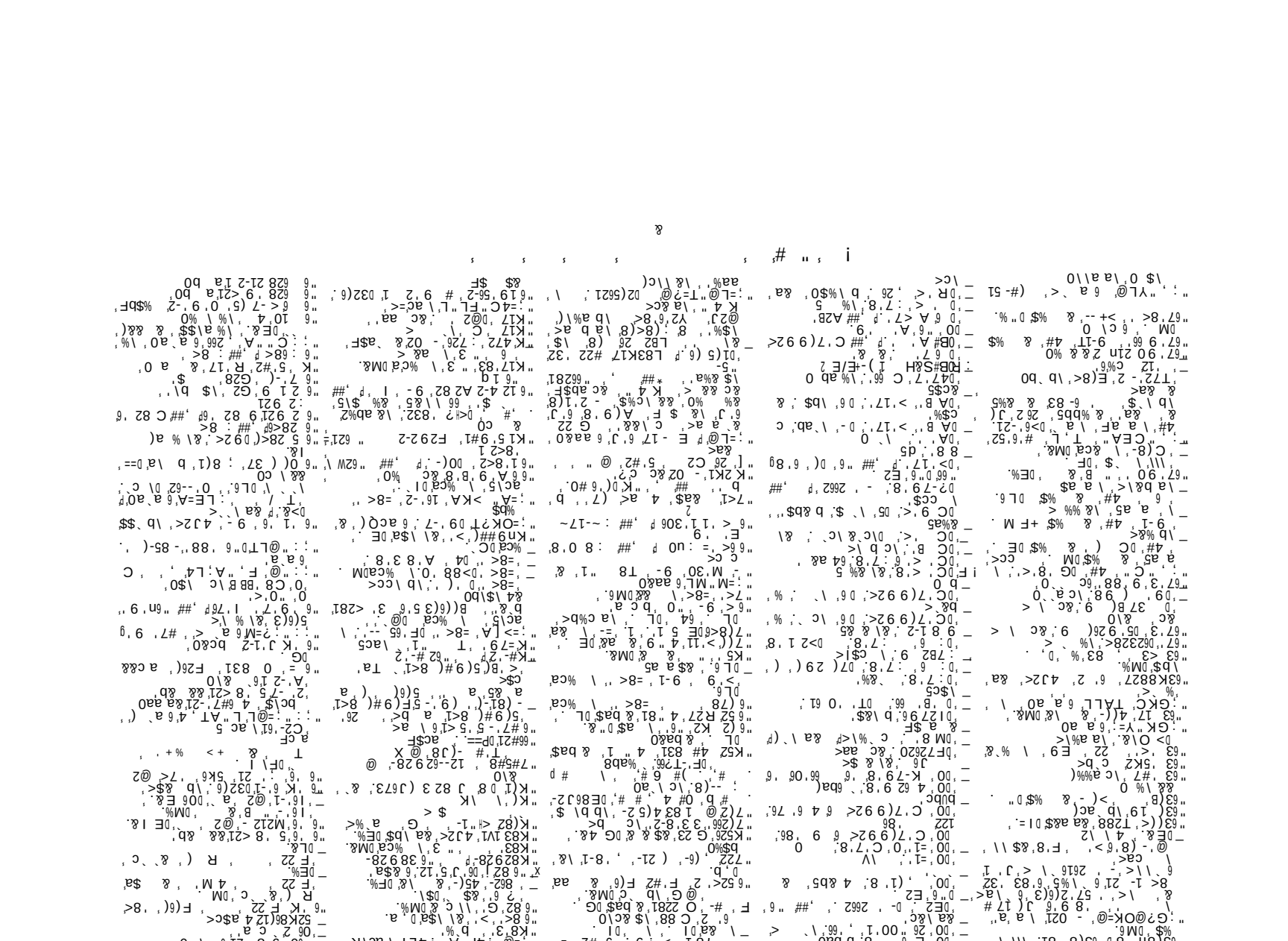

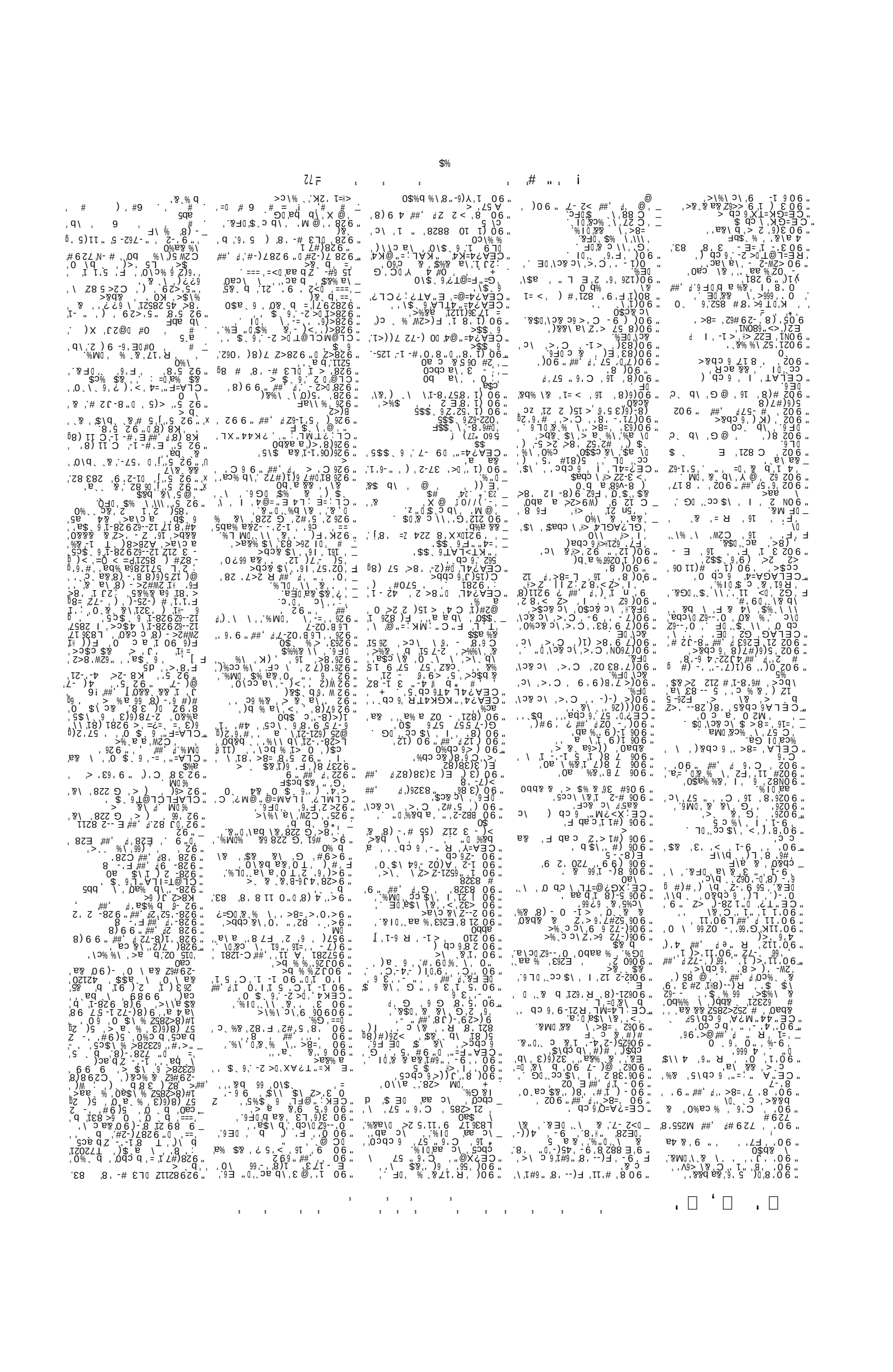

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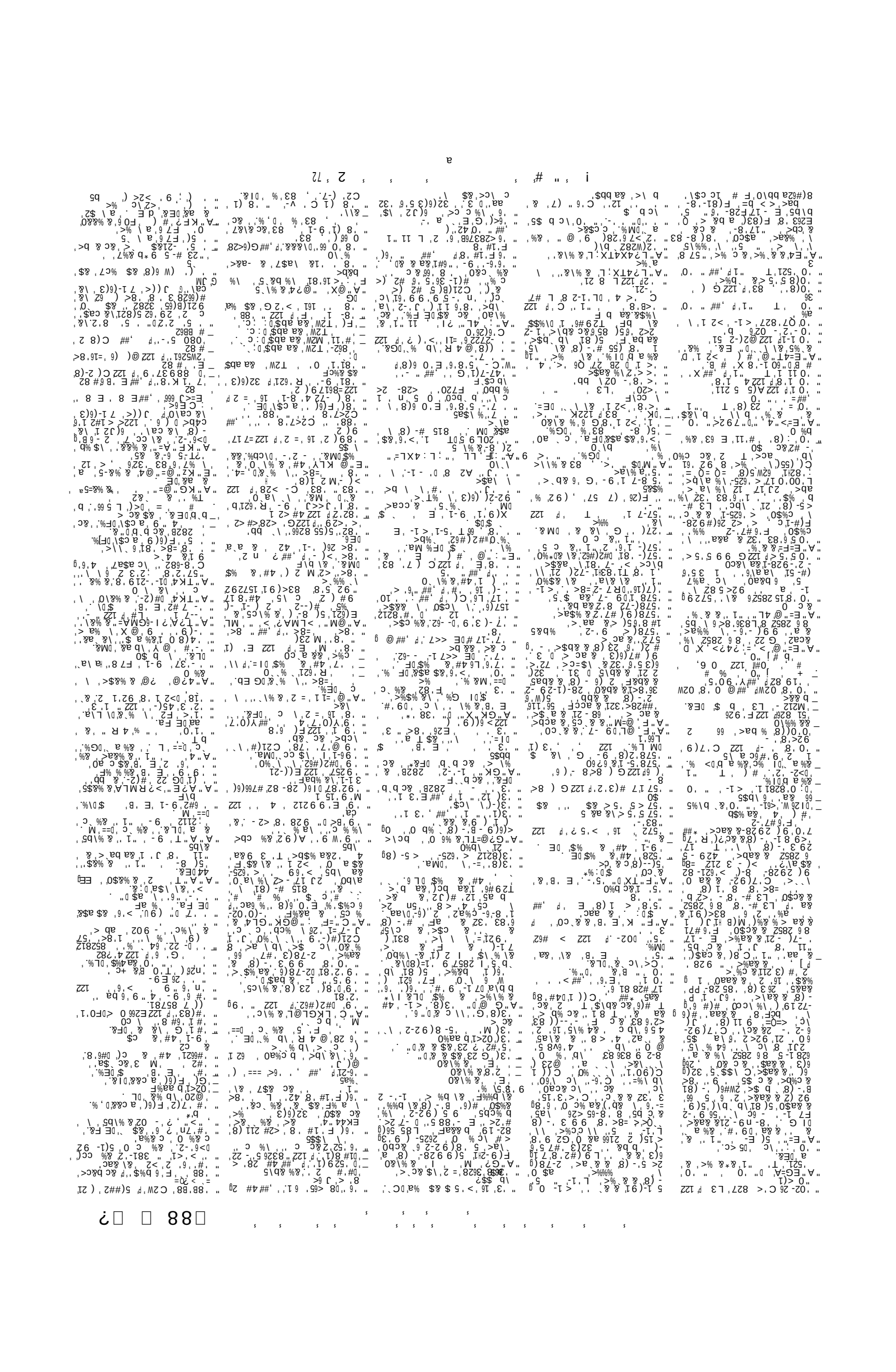

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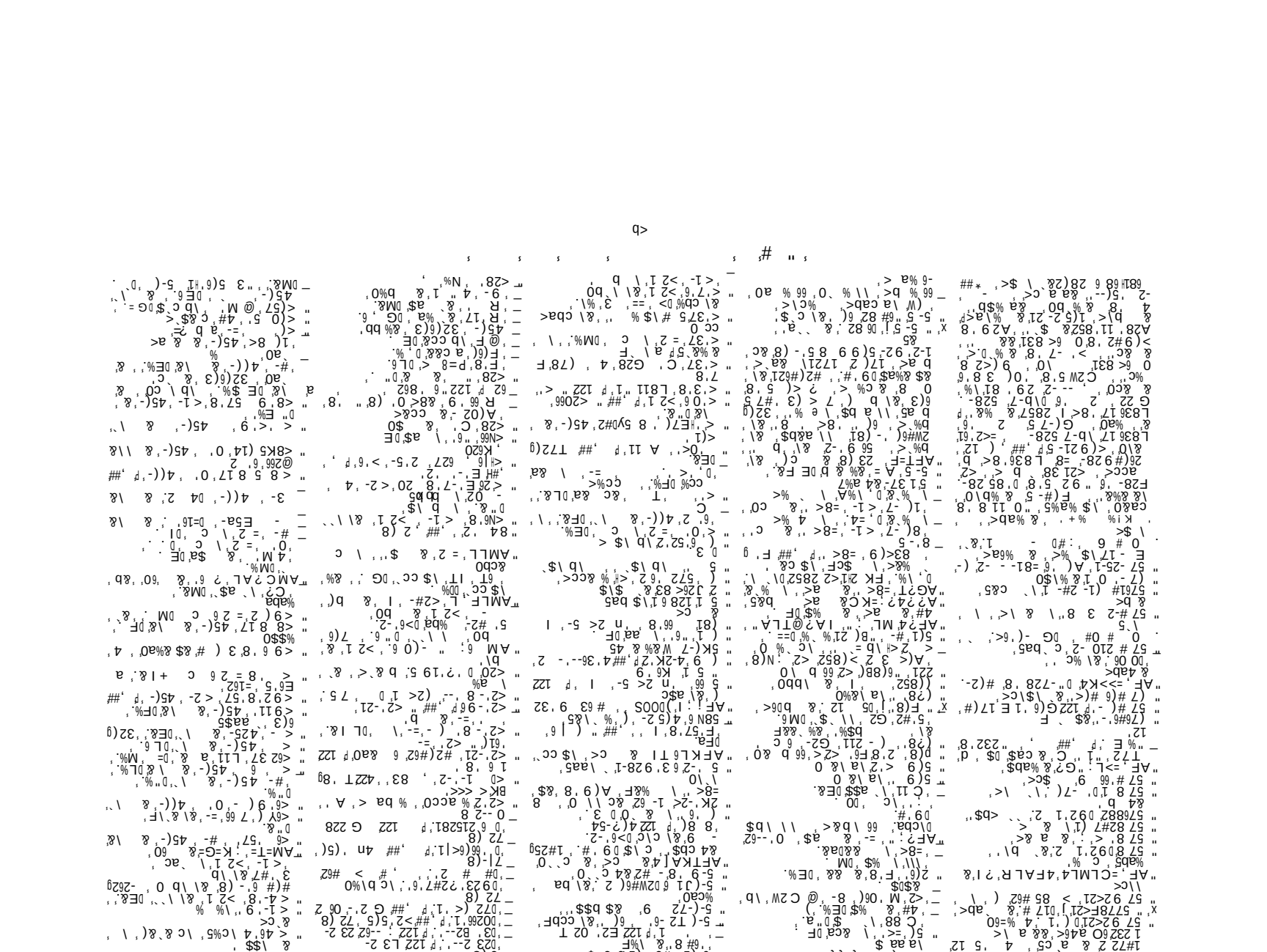

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To make full use of this Index it is essential to read the instructions given on Page 1.

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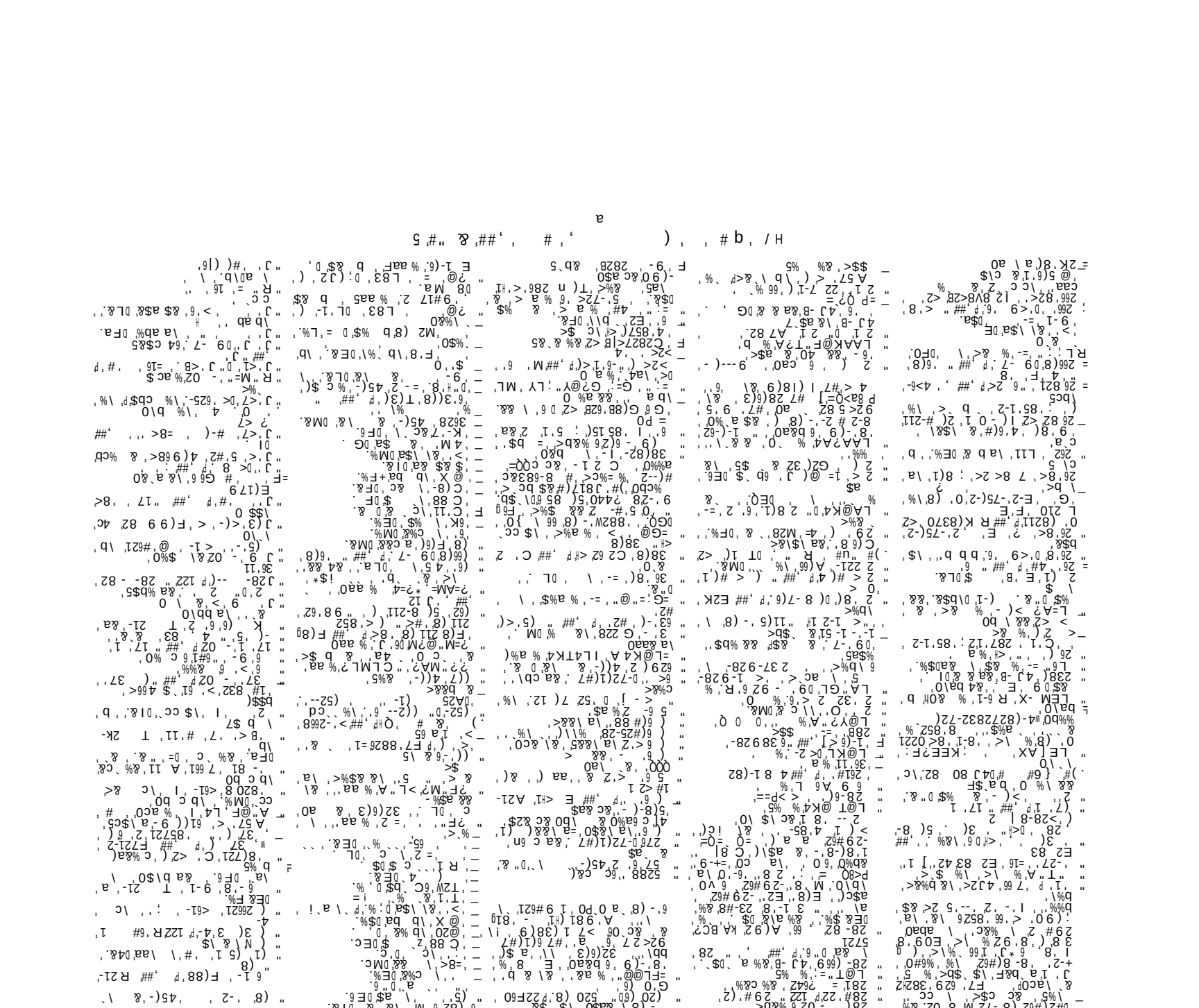

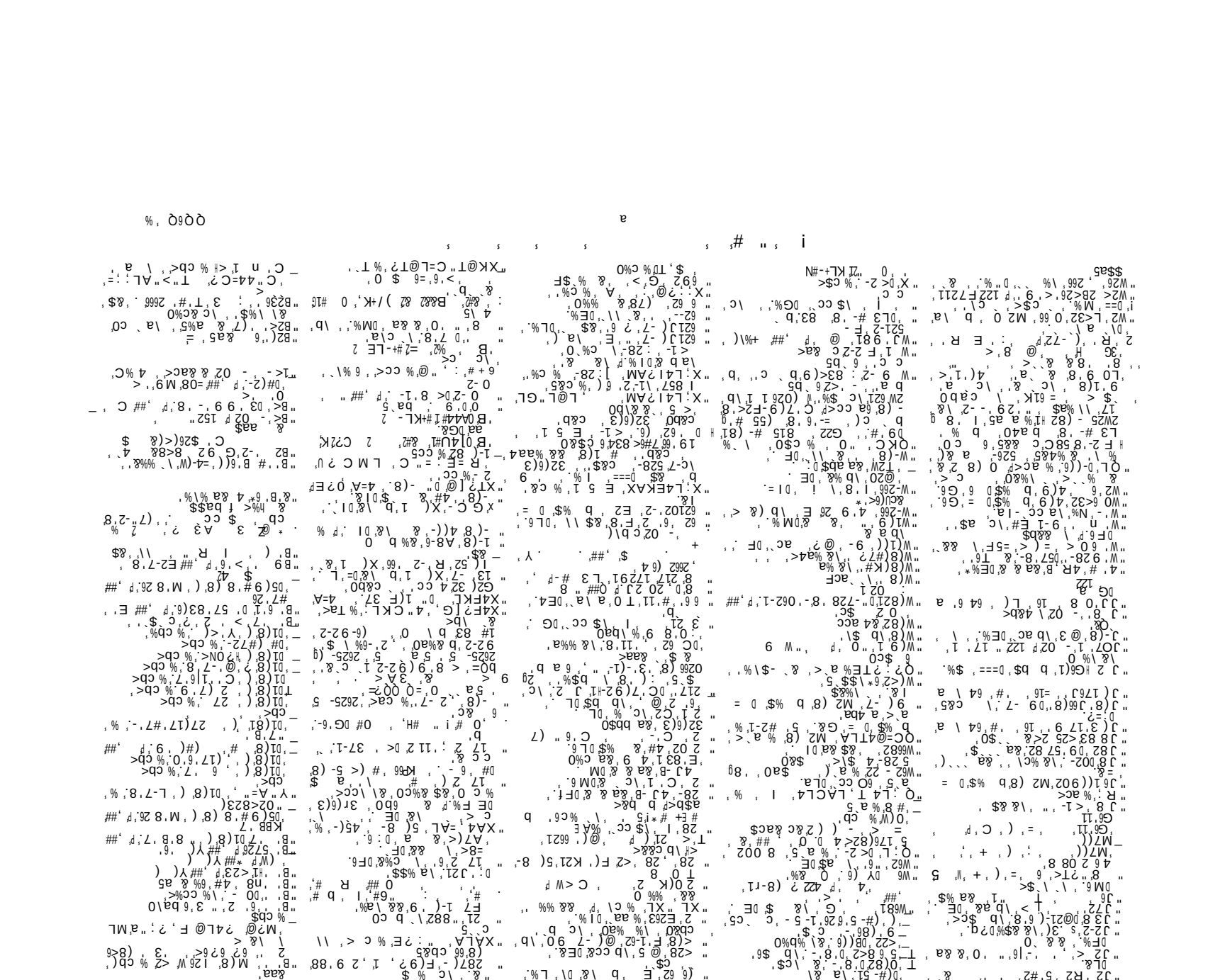

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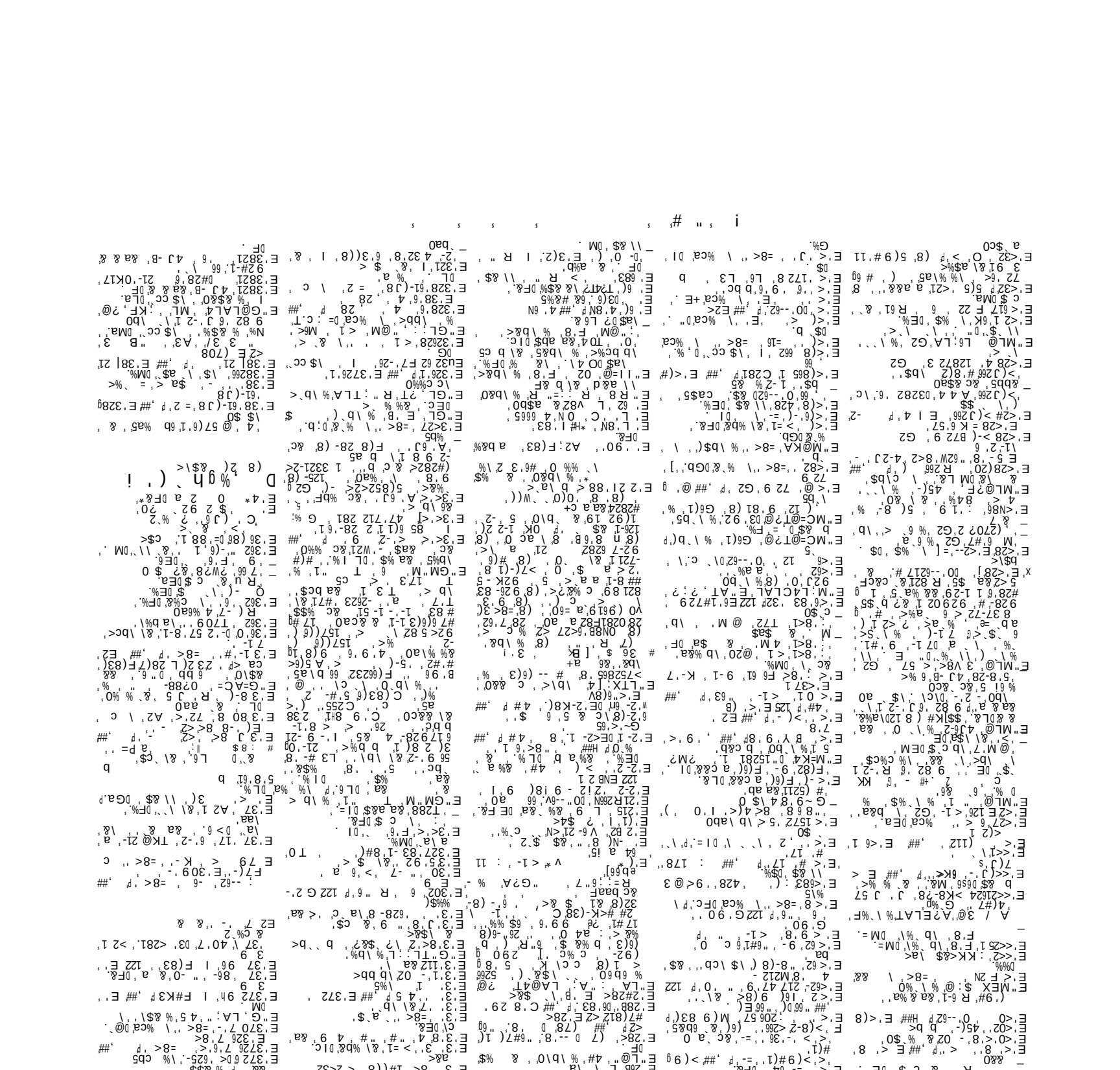

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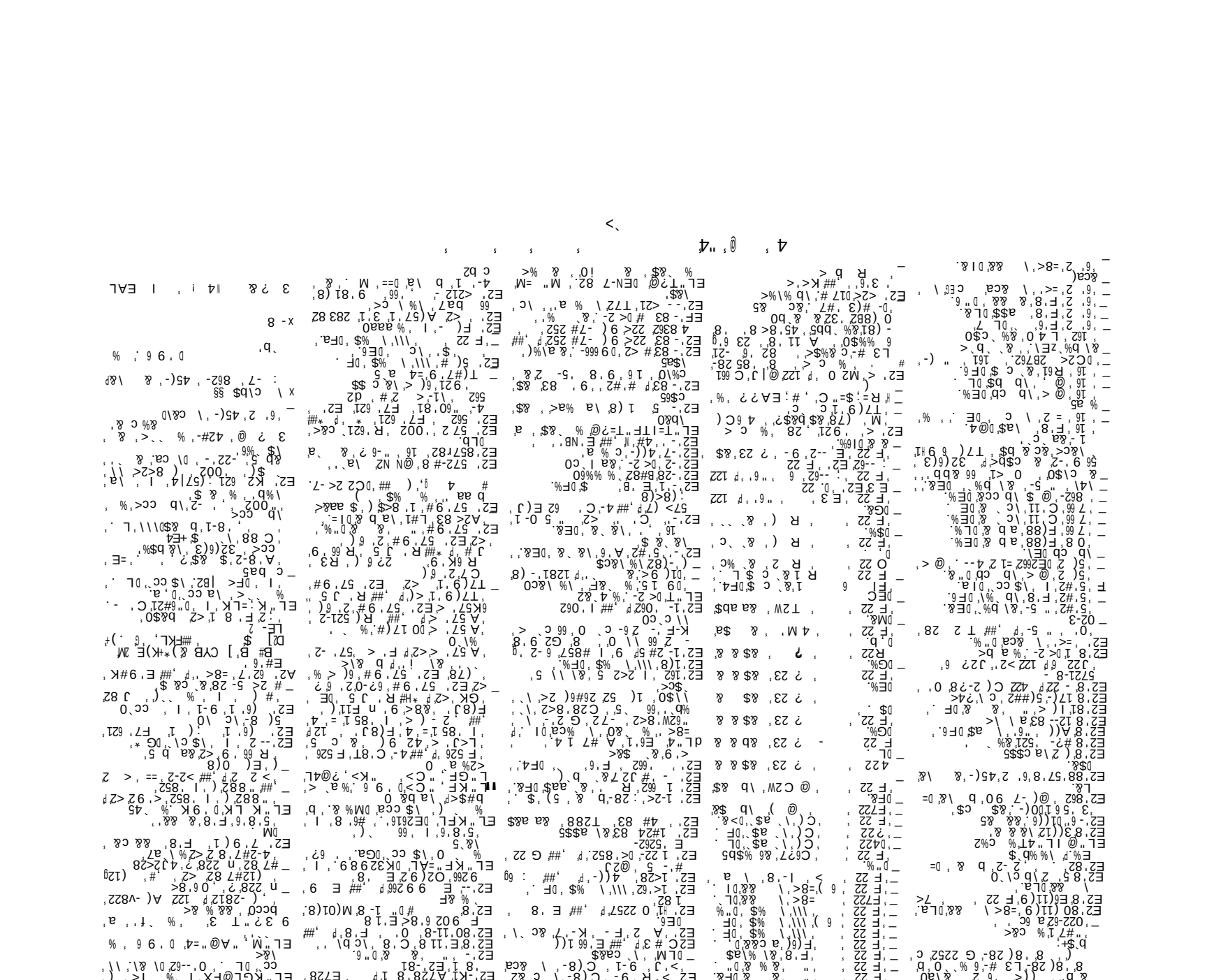

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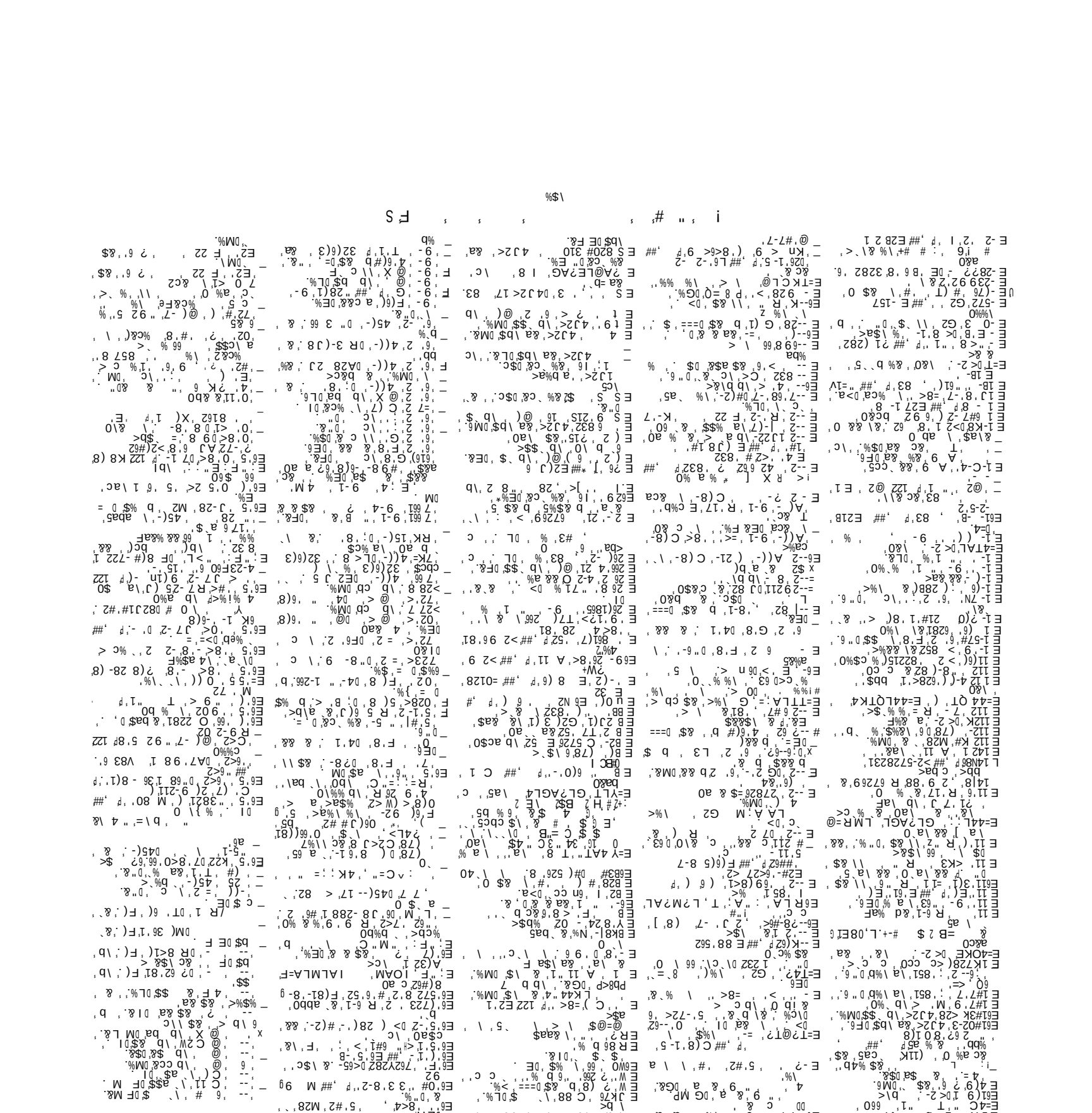
_ (\ ' \%a\' 4 cc' ' | '
b5
_ (' R 66 '9' 0<' \aaa' ' '
4 ' R 66 '9' 0<' \aaa' ' '
_ c%\' ,
_ R 66 '9' <2' 0' \\b' &' '
c' 10 & \&&< & \% &' ,##
@2J' 2 12 &c aaa$
R 66 '9' L -B7' < 832
_ 0' (8' 423' 2 (E2 262'
7' <6 2'P ,## L -B7' < 832'P
18-B7' <6832' R 66 '9' >6-8'
7' < 832' E2 262 ' 0' (8'
423' ?' (E2 262 ' 8<
_ R 66 '9' (E2 262 '6(<'
F R 66 '9' (' > 66Z' 0 '
@(-- 837'9' % %%('
_ cc' 921' E2 262 '6(<'(%'
_ ' %\a%' 4 ' ' ' ' ' '
_ cc' 0 % %%'< '(8' R7 -- 83-(8'
_ L83' %c &' D"% &' 0===' 5'(
' ELA:4 =AL'DE2 (515 2' 83'
L %' \a& &' D"% &' 0===' 5'(
ELA:4 =AL'DE2 (515 2' 83'
_ -' \b b$ DE&' 83'
E2 ' (12'b c' \ #'(g
(012 -'(2I'\b c'' #'(g
526' 8' 9'8 '(- 2 c \'
E2 262 ' 6(<'(%'
_ ' %\a%' 4 ' ' ' ' ' '
_ cc' 0 % %%'< '(8' R7 -- 83-(8'
_ L83' %c &' D"% &' 0===' 5'(
' ELA:4 =AL'DE2 (515 2' 83'
L %' \a& &' D"% &' 0===' 5'(

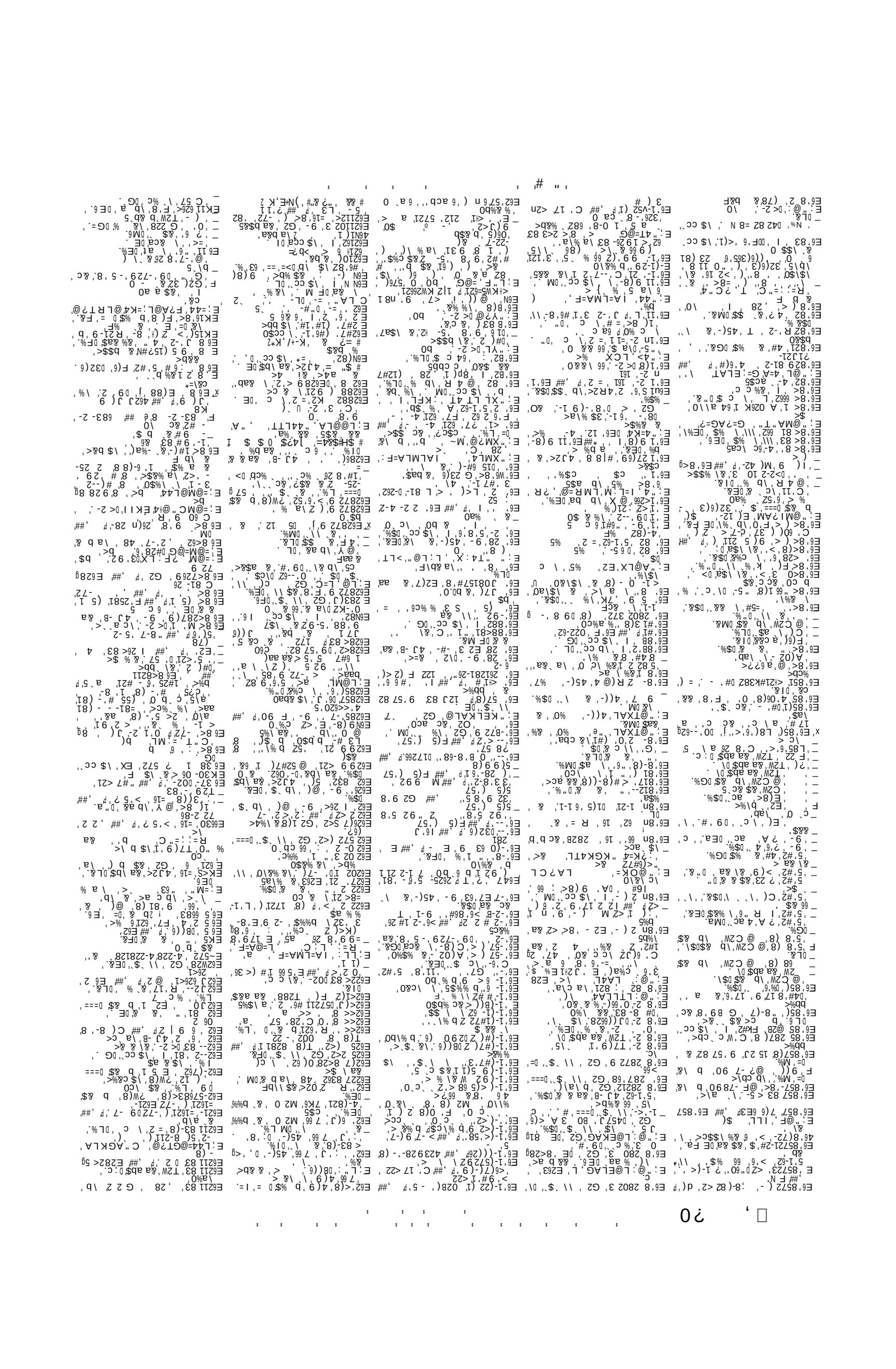
E2 (6'8<'@(-7'16' ,(K'\%' ,D"%.'&'ba' 1'%'0'& caS"YA'D£2 0'B.'T' E XE"Y"A'D£2 0'B.'T' E XE"Y"A'D£2 0'B.'T' E XE"Y"A

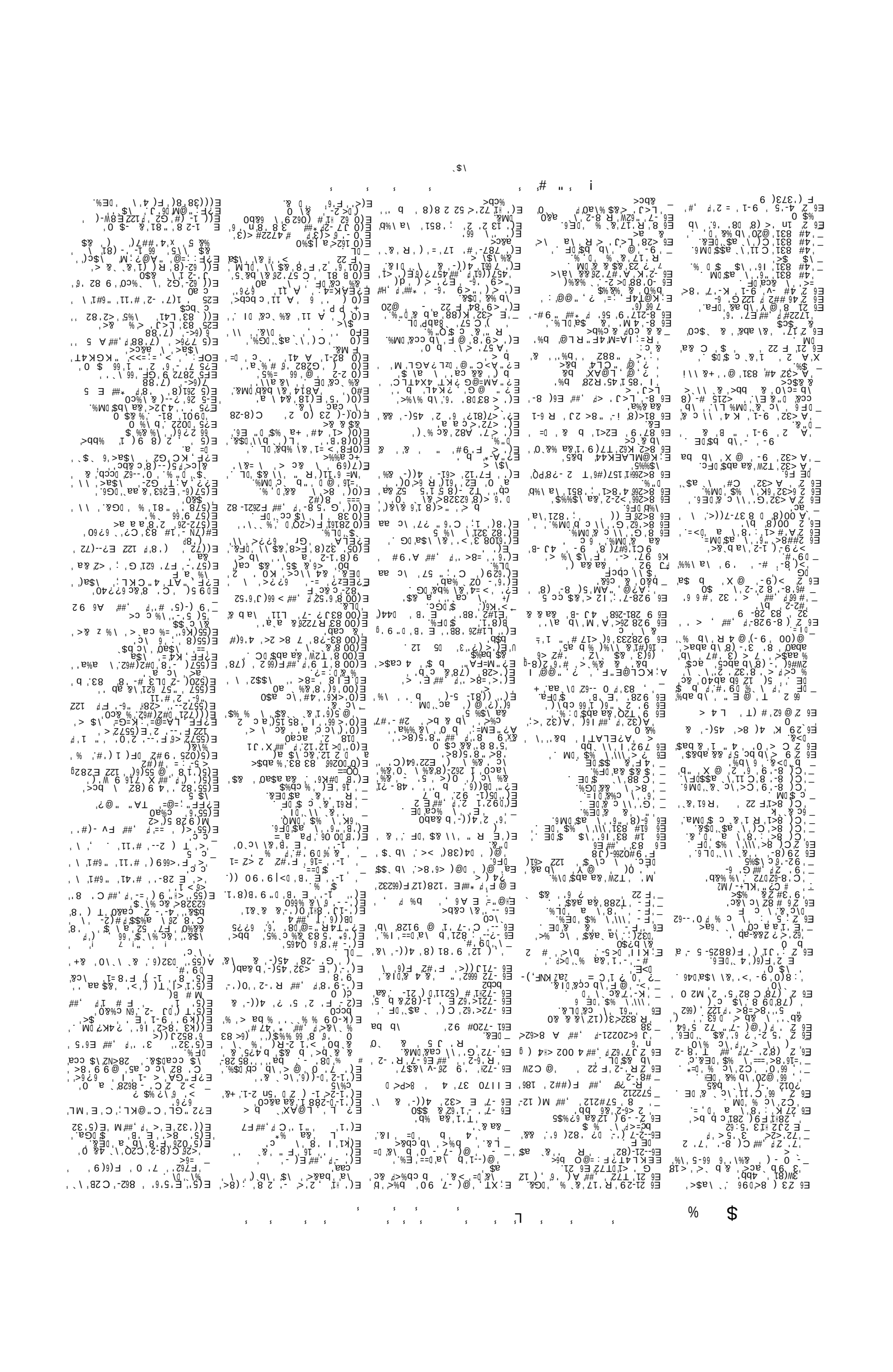
E<2 8 E' 9 <'# ,## M(8 E2812 <'4#'& %$'DM%'` E 238#(#(-16'0125-'&%``aO E 23\`\ E 11'&\bdb'DM%'` &a' UZR' J 5 `b\&$'D `,
J 52 E 26\(-1' E 26\(-1' (21-'E 11' 122 E 26\(-1' ,## E 11'# E 2 D!&` \ =-' % b&$<' \ E=L`.`.'` "&' &'DE&.' E<K&2"` E&.` \ 67?O D"`
E<"42 '# ,## E263 '<2' E26&66`.(9`"E`63'&& b%c' E=L`=TY`"`1`a P?=`%`

F



E6'5 ,E2' ,<' ,16 'G ,\\ c & E6'5 ((-' ' =<' \ &ca' E6'5 8-(8(C'11'\c ` &D" 6. E6'5 ?' ,' " ,' &' DLE.
0 -12 DF M cas' b %('6 D"8- #'-721' 062 1' ,## -2.#
E6'2 02' <' D#' -2.#
_ '5(' 61' D"8- #'-0 <2',' &'
E6'5 7'6'' 661' O 2261'&'D' 0'
D=' I%' ' C$a?
E6'5 7' 9'C -7' C 0'
E6'5 ' 9 26<(8'7K61' ';851'
& b%%D"6. &





E5(88((F(9'b,'q$D'G4.'4(<'(;:'3&&'b&0'=((4J-B'&'&'D>'*'
E5(-'>(-L'!&a&'&'DI'.'D:'.'
E(('='zT'=-'&a&'&'DI'.'
E+F4:'X'4TL>'R,'\$'.'
'\%'b\&'
BAq'#r'4'.'"81'\$b'
'%DM=
E(<28'b5/211'#6'2'.'a'\$%<'
E(<28'b5'4J2<'\b'$$'DL&.'
E+(28'&'&'DE(<'.'DM
E(<6l7F'6'.'DM
E(<621'>(8<'6'2'.'@'.'
'\b'$$'DL

E(6&6&6(1 "' 4#' z %$'
\% z?
E(66 J22 6P ,## E(--(8' 0(66
J22 6
E(617 DE(=4- .cb<' &' .,b$<'
E(6- 11 "1 &. '$0 :.'\a a 0'
E(=172 M2 02-(46<' < 1-'
E(K12-6'P ,## E 6J'
E(66 J(9'P ,## F(--(8' 0(66
J(9'
E(692? 6' 2' 42<' &a \b$
E(692? 6' 2' 42<' &a \b$
E(6&6 .cb<' &' .,b$<'
E(6- 11 "1 &. '$0 :.'\a a 0'
E(=172 M2 02-(46<' < 1-'
E(617 DE(=4- .cb<' &' .,b$<'
E(6- 11 "1 &. '$0 :.'\a a 0'
E(=172 M2 02-(46<' < 1-'
E(6- 1-(82 &\ ca<
&C
E(6(382 '=6P ,## G 78'6<6
)M' # " "
E(6- '8<17 --2 'a CO
E(6-62 6' 57 'P ,## E(J-266'
E(6-28 '' &c %'b'
E(6-2868 ?' &c %'b'
E(6-72' < D36'11' 21126' ,##
C-' 11
E(6-7(9'D9 -7' &%'
E(6- D 17'P ,## E86-
E(6- 828' 4J6-2 &a & &'DF%.'
E(6-8'5'#2 :('P ,## C(83'
E(6(17(T(9' A 11' &%'
E(617('16 " 5-'P ,## E66B7
8
E(617(' 45 '6' &' c?.'
E(61(8'0<2-'.b &$<
E(61(2 T(9'1 & &' '
E?'47 LA'M2 0 \cb<'
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6'3 \a c\0
' D2 ' 5' \
E(61-2 -(6(P 0 5 J(' '
E(61-2 1-?82' X(1' & b%%
'+P%. ' ' A 11 "1'P ,##
E(617' .
E?'4R"AM' ,(66' \% ''
'PF-' &
E(612J2 -'E(2- 4''\a c&&<
F'457Z8-2 '\a c&&<
E(6- '' &' \\ DE .
E?'T<2 2-'6 $0
_ &&
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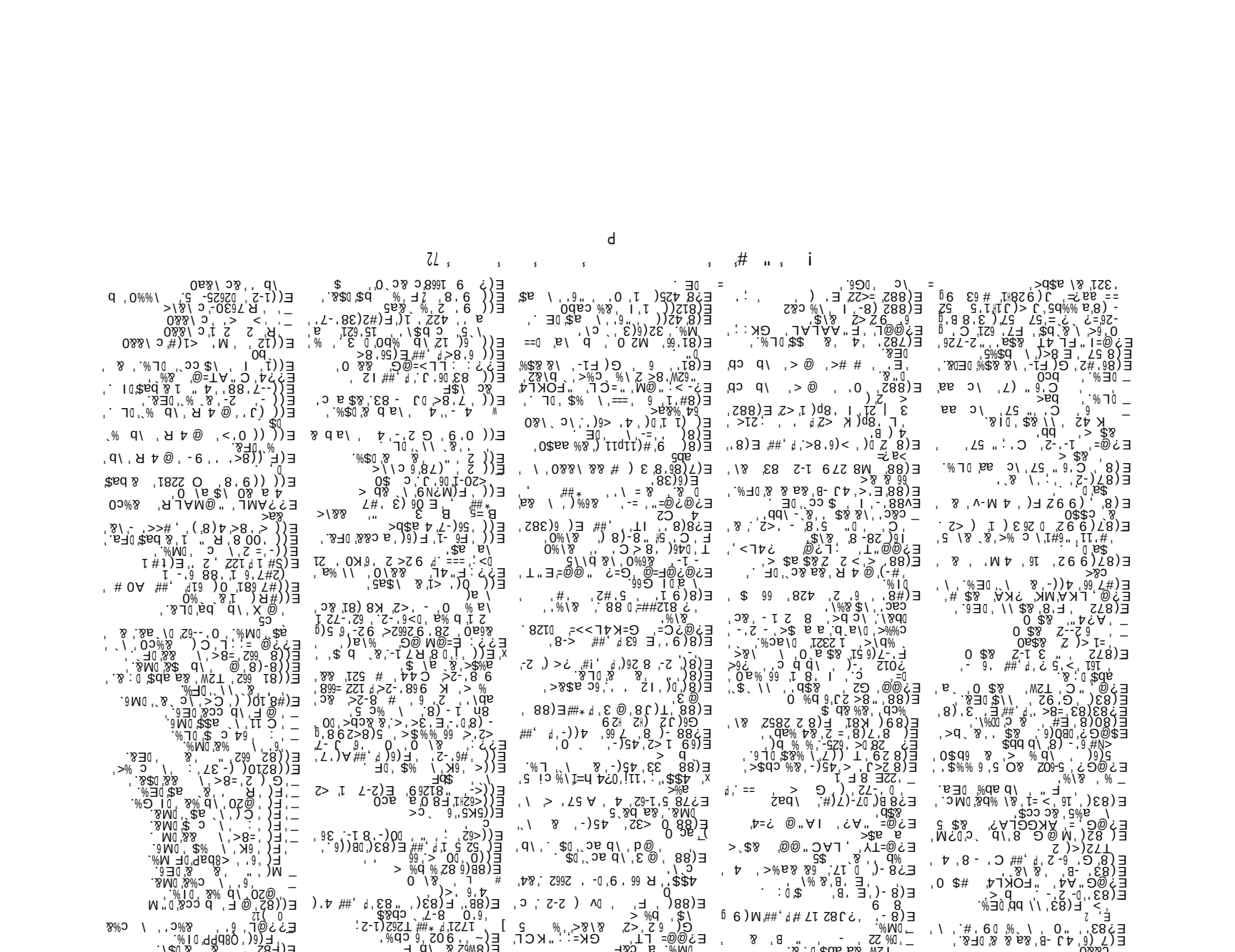
E(61-2 1-?82' X(1' & b%%
'+P%. ' ' A 11 "1'P ,##
E(617' .
E?'4R"AM' ,(66' \% ''
'PF-' &
E(612J2 -'E(2- 4''\a c&&<
F'457Z8-2 '\a c&&<
E(6- '' &' \\ DE .
E?'T<2 2-'6 $0
_ &&
E(6(38'8#7(1P7(1'% $&'
E(6-62< '6 'F =\b %&'DF=
E(6(92-2 'a \ca5 &a %%<
&a %&$
E(6(8 9-1 @ 4 R 'b %'
DM%.
E(6 DE66' .' 83<(9'F "1'
64 a%%'(&$ a c0'
E(6-28 D'57 'P ,## E(J-266'
E(6-28 '' &c %'b'
E(6-2868'2 &c %'b'
E(6-72' < D36'11' 21126' ,##
C-' 11
E(6-7(9'D9 -7' &%'
E(6- D 17'P ,## E86-
E(6- 828' 4J6-2 &a & &'DF%.'
E(6-8'5'#2 :('P ,## C(83'
E(6(17(T(9' A 11' &%'
E(617('16 " 5-'P ,## E66B7
8
E(617(.



E((-'"<'(\'%'' E(' 3 82' '51(0 1' <2' '5(0 1' <2 \' b<' ' _%\ 5 E(<'#122 8(<'E((-' D %' \8'=E.' E((- '3(5 (58'8 1'#122 E('32' E((-'8' 8&<' ' E??T'D<2-' &%'.'G-22' c &% 5'A(9'8 C &%'a' E((-70 (62'\%'\a'<. E((-70' M' D6'J8 -288 1 #6'2 '\a %$=0 E((-70 ' G ' (' ; 821' \a' D>=' 21-&'b c<' cb\0 D 'L3826&';8(1'6c'b'' E((-72&' 9' 0(90 (8I' \ b&a E((-72 '(8I'b b&F' E((-7 '1-7 F'8'4 \a$'D:=.&' E??2T'D<2-' &%'.' E((-7 '(78'\a'\F E((-62' (b=' E' &%'.' E??7L' !' ;'851' \a' $0' \a' E((-2 R6 '7-' '2' 61'(' ' ' R6 '2' 8 &%' E((-7 9' 8 ' &' bb%0'- '<2' E??A"'DJ 8<' & \5'6 &\'0 E??A"'G=@"FL"L' & &0'\a' E??A"'F L' &\<'a c%' ' E??A"GL' & &0' 6(J2 ' & &%' E((-7 'T(J8' (1' & b%% DE&. 5 D %' 1 1-29 E((-5 ('5 <'f ,## E(5' '5,

E(1-(8' 9-1 ," -.- /% &
 0"Fa, ' 4u60 f(' 122 @2J'
_"E1-(8
E24?2@ -(92,' &bb4<'
x E(1-(8)Diy #;& b <'
 C <
E(18- ', " 1',% 'DI ,
E(1288"4 ,"&W 8<2 ,c a&b
 _ ("781(8 b a% ,' b$%<' s%'
 b ,,, (781(8u#1' 28<17 #
_ '% , 'E, 'B'&%% %< FX=
E(-'66' \ F(9 %a^O' b %$'
"%',%&&c&O
F'72'<'F(9 %a^O'
E(-'66'5 -2 c \$b<
E(-'9', A 11 "1' & \$'
E(-(8 5'1 & $ DL&.
E(4-J55 ,'16' \$ 'DL aC$ 'a acB'
5 2
E(1- 577 <2"a acB'
E24- 5&#<'2a acB'0'
E(1- '77<5 92P1?? ,266#(<
E(4- 57 '6 b\<
E74TA?C F ,A=a7?ILA'
'5(0 &bTO\b \ <'
E?4]?6 ," F ,A"@=?4'
E(1-(8 5'6 & $ DL&.
E(4J?66 ,66 P <
E(4J?66 ," P ,#C(7'C '<(R
"I 2 2'8'P ,##'X23'',
"36'0 'P ,##'E(1J2 66'-7#'
"62',
"12 ,-'P122E(1J2666',-6 6'
_"&<'<,'C,'3' 2,'E< ? ('
E(1J266"=8<' \ &&'DO%.
 ? 6'&S 'D>%.
 >''&\ \$a'DM .'
 ,'hL+#'b &ac'0'\b ac''
4(!2 9<< &b%0'\b ac''
E(1-(8 '2'6' 'DL .
E?47?@6'L &b<O
E(1-(8 C'11'5 2 &ba'
 , O'\C ' b0'
E(1-(8 # '&\ b <
E(1-(8 >'8-'-(8' C ,11 P ,##
>'--11 2&<
E(4J(-7'L<J'<'1 \b b c=
E(1J ('@ X P122E7173J65
 ,"C(4 &>0 -7
F A'8%7'0(' ? 2 162 '6 \b'
2' 6 (%$%0'% &@ 0
'72 G (<8(5(8-211'\c
 _"Cl4 L>EK&@ -7
 -72' 6(4$ O'& O
E(-7R&#'I'4-2J'T-' 2#O 8'
E(-7 (#'D122 ,<(''
E(-7 (#(6 1'a &c%
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E(-7 (#6'8 <'2'8 c\85'
E(-7 (1#(8< -'1'\c &c&O'
E(-7 (62#-2\ &&5 '\&'(
E(-7 (62#'8 <'2'8 c\85'
E(-7 (6'0-2a6 %&(&'a'O'
E(-'8 'J(6'& $a''\ \a''
E(-'3' \a0' &O
E(-2 4J2<'\b $$'DM%.
E(-2 88 'F(9 'P122E(11 82
E(-2 '5,1-62 45(-'P122 E --62'
E(-262'D '8 '6 %%'\ <
E(-7 (<28< F8'&$ &b5'
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E(-'8 'J(6'& $a''\ \a''
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E(-7 1'& %$%<
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E(-2 88 'F(9 'P122E(11 82
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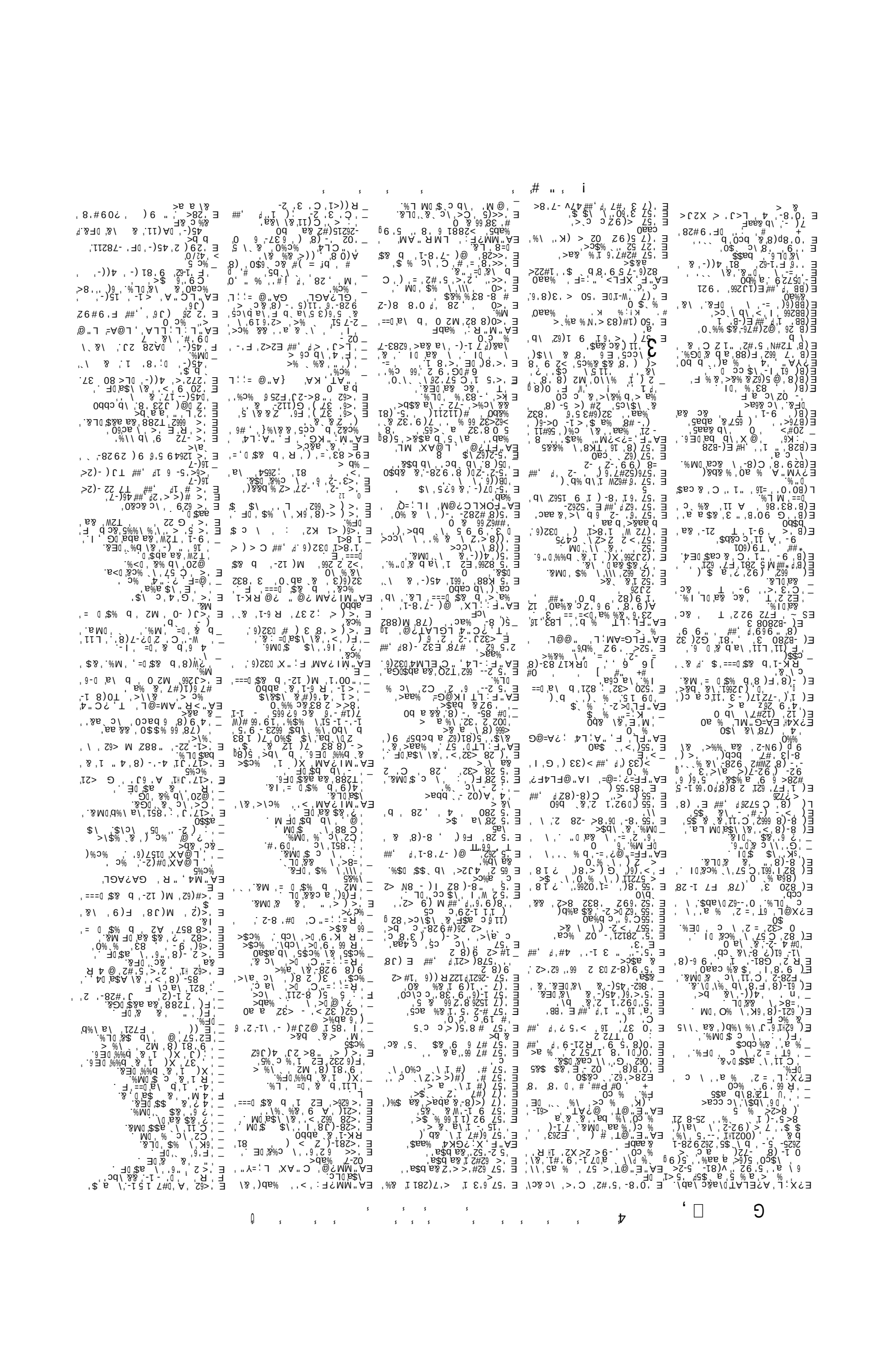
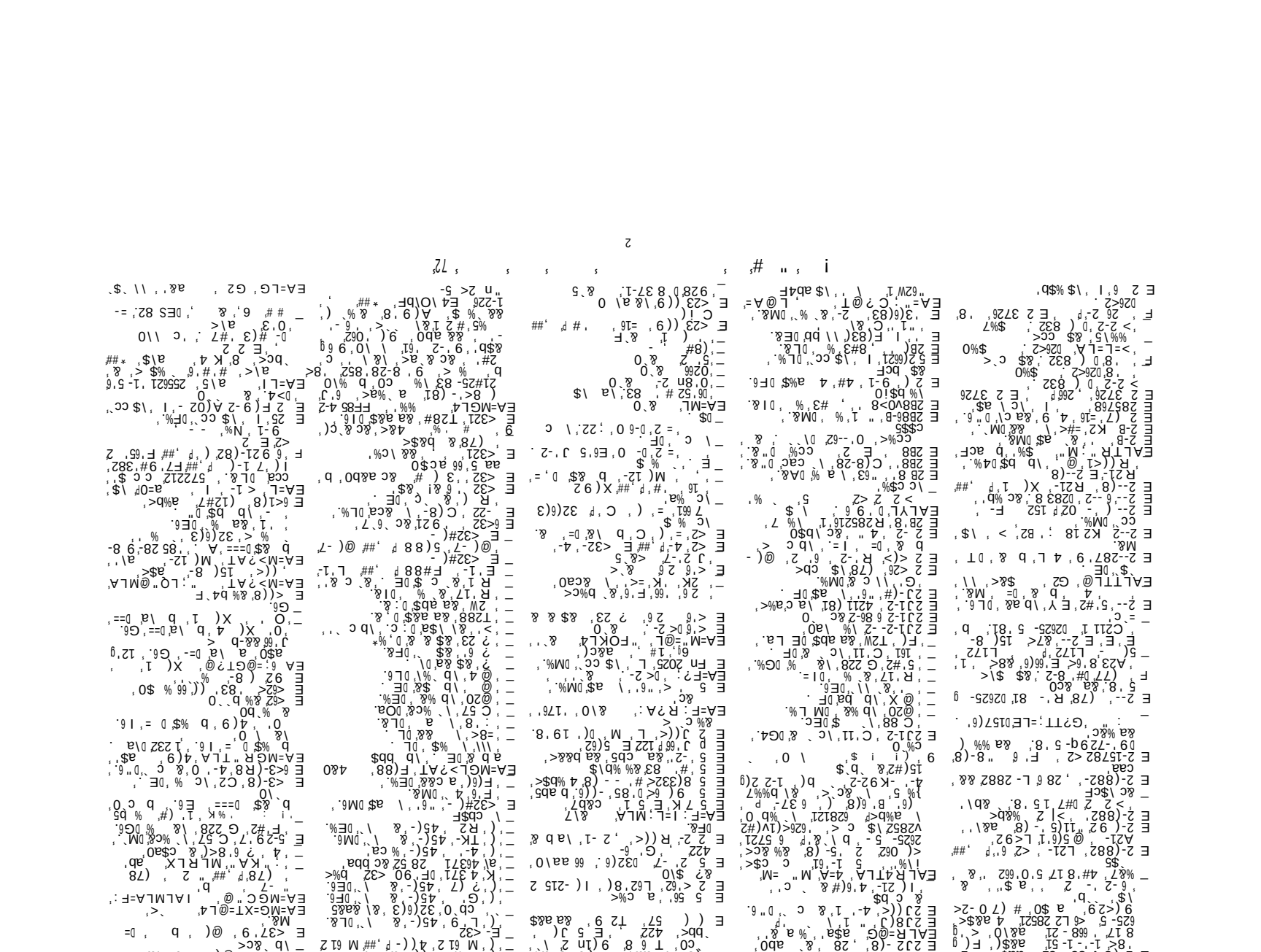
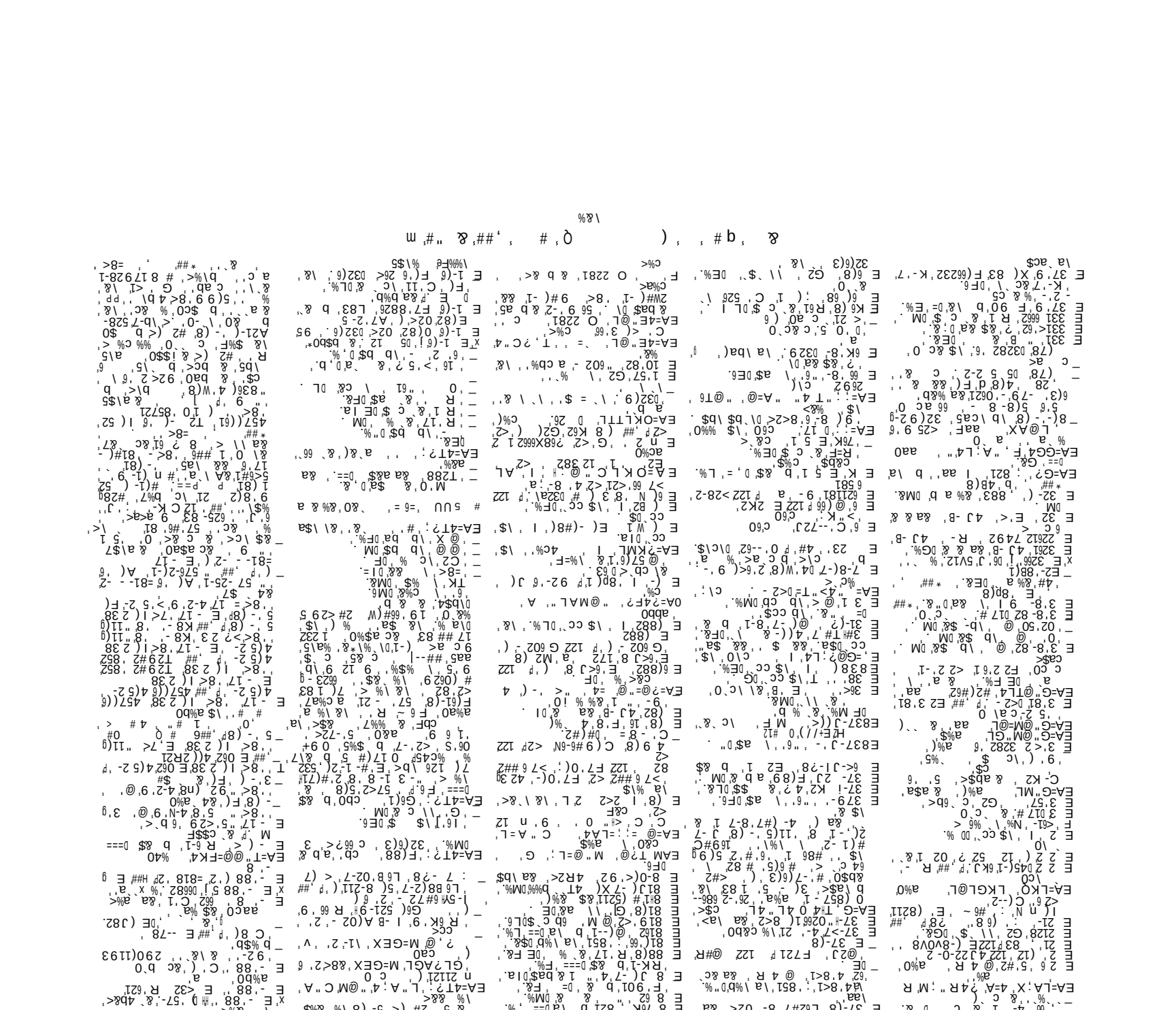
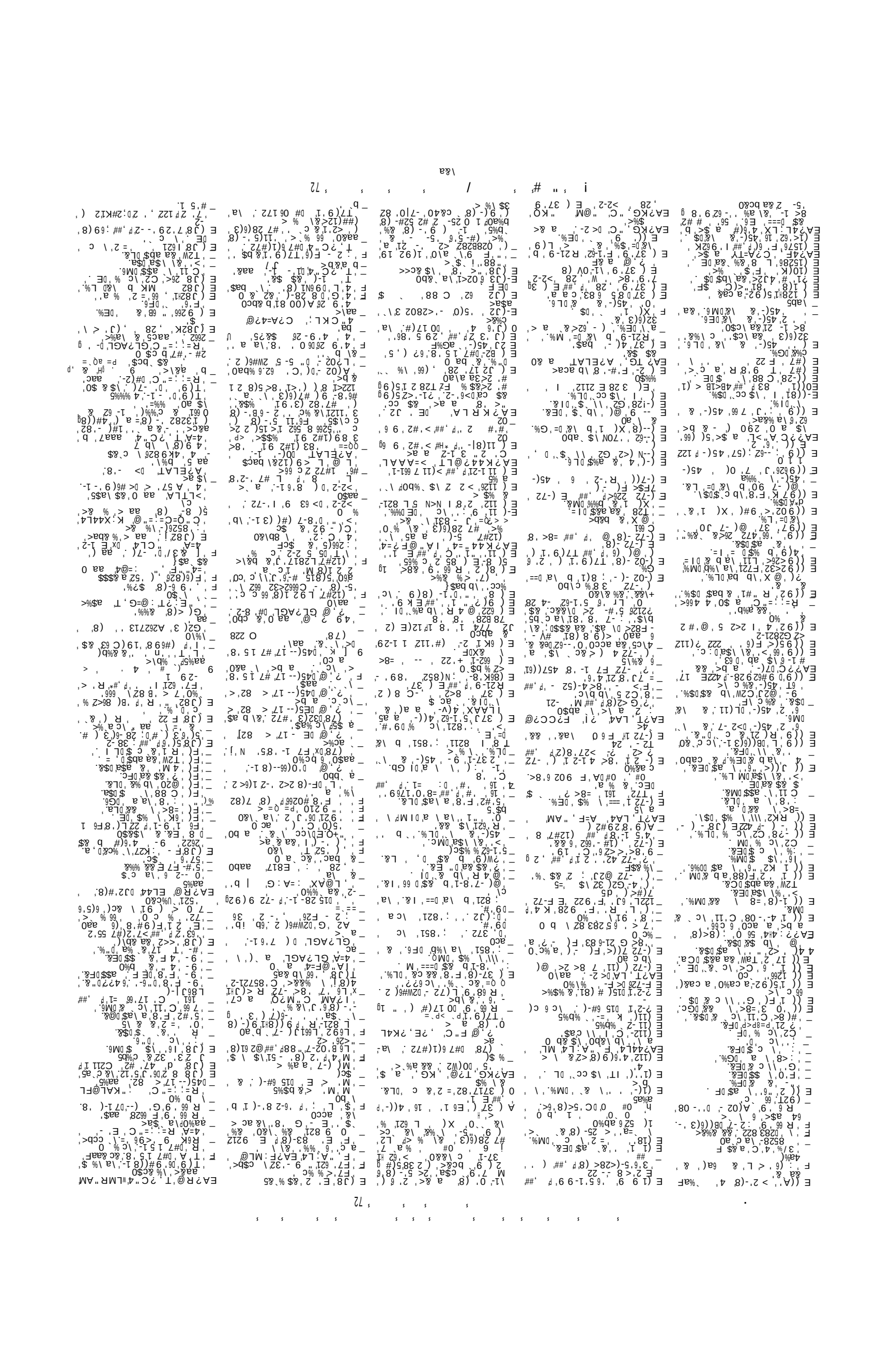






E (5 J-'9 \' $'DF-' E (3(' D@(9'8' 58637-;'8c _ 0'-'4T66? >' ;'(8< \a b%" E (5 R66'?a b\b$ DF%-'8(' F721' \a \%b' _ \$D T G' D#7 1 (6(3 1-'8\' _ R66 '9'6 '%O E (<2 5'1-62' 45(-'\$ ac&5' E (<8'1"1 D\)0.' E (< D 83'\ caa< _ '0'.4$ 4 $%' '&'%c\ DM E (<'W'\ \\<c _ 5-' 1 'Bp(1 < 5' <2' E (<K 9 '# 'p'122 E 2 K' E <OO' (78'p'122 = 83' _ 28' '<K(<2 a&c<'\$' _ 'c '''\$ cc' E (<'12<2?' ' 11(8 662' _ ;' 12<2'F6%N (8 5(9-212'<# E (<7 66'p 122 E (-72 7(((< _ 'F' L 5 9-2 <2' a&a< E (37 66' A(32 2 E(62'0' a& 0' E <72'<: \ C $'DM%. E (<72'?GCLX@' a& 0' _ 6'#1'6'--66 \a &$$' E (332 -2 &% aa%7 _ F7 1-(-2 a&aO'\b `$\< EA?GCLA' R" :MLC "A' _ \$D 1-2' 6'p ( EA?CG:=L' ML' D 9 - ' &\ \$a _ a&aO E<72<1 62' >' a\ &$$' E (37 66' A(32 2 E( 62'0' a& 0' _ ('p122 2 &\ C $'DM%. E (<72'<: \ C $'DM%. _ R1'&'c $'DMa' E (<7 66'p 122 E (-72 7(((< _ 6 ( E (7 8'&'a' \\ c &'DL ' E (( 8'&'a' \\ c &'DL ' E ERC (-F7 1-(#72'&$ `DC(' E ((82'6' ,'&'UR' `DM%.' E (( #'- C 88'\ a $'DM' _ L ' D' E (( #'-.F 6 ' < 2' < E%.2 E (( 1 F7' 621' T 9'(-7' \ ' _ 'T'F=`R'4 ,'=>:LX' a b' E #0 2' "-7 p ,'##' E < 2' _ '9217'D#'C%cc' %%5 E (5 <28-2'6'%&45 _ 'C' 3'2-p' ,'## M287'9' E (BB21 83]' D 'r7-;' b ' _ b65 #' ,' L!' a \O' E (BB2' (A'#68'j'D 815 #9 _ (8'\C bO") E (8B2(' (4 1'j'##' 4 1' _ 6 ' 21 E (BB2' 831 D>7'&'&'DE. _ '(G'\\ C &'DE%. _ '6' \\ C%&'D%. E ((20((37 = 2' \ c ' _ -'16' %b%' \ DL&. E O -(-72 DE (7-2-7#' _ -(-(1' 91&% \ $' E #8J((<G' \\ C &'D _ <'#'## T6-'8(-72 <'5' E (8W'i @ X F' \b b&' aL . _ \$\b' @ X F' \b a\$O' $' E ((2\1' 1? 8<6E3 9'57 82 _ \$\b' @ X F' \b a\$O' $' E ((2\1' 1? 8<6E3 9'57 82 _ &'.5 &'&$c5 E ((6'8<'" 8L-' (' &'DL%. _ 'F(88'a b &'DE _ '@ X' \b ba'DL'%. _ '@ \b b$'DE%. _ 'C'11'C'&'D&F&'&'%&%5' _ 'C'\ a$' D&. _ 'R'17'&'% 'DE%. E ((1 &'c $'DL . _ '-F28-2 'F(88'a b &'DE ' E (('G 228':(8<('b'&'b'5' E (5 "-'&%&'$' L-9158' _ '9217'D#'C%cc' %%5 E #0 2' "-7 p ,'##' E < 2' _ '9217'D#'C%cc' %%5 E (5 <28-2'6'%&45 _ 'C' 3'2-p' ,'## M287'9' E (BB21 83]' D 'r7-;' b ' _ b65 #' ,' L!' a \O' E (BB2' (A'#68'j'D 815 #9 _ (8'\C bO") E (8B2(' (4 1'j'##' 4 1' _ 6 ' 21 E (BB2' 831 D>7'&'&'DE. _ '(G'\\ C &'DE%. _ '6' \\ C%&'D%. E ((6'8<'" 8L-' (' &'DL%. _ '@ \b b$'DE _ '@ X' \b ba'DL'%. _ '@ \b b$'DE _ '&'.5 &'&$c5 E ((2' E%.2 E ((1 F7' 621' T 9'(-7' \ ' _ 'T'F=`R'4 ,'=>:LX' a b'



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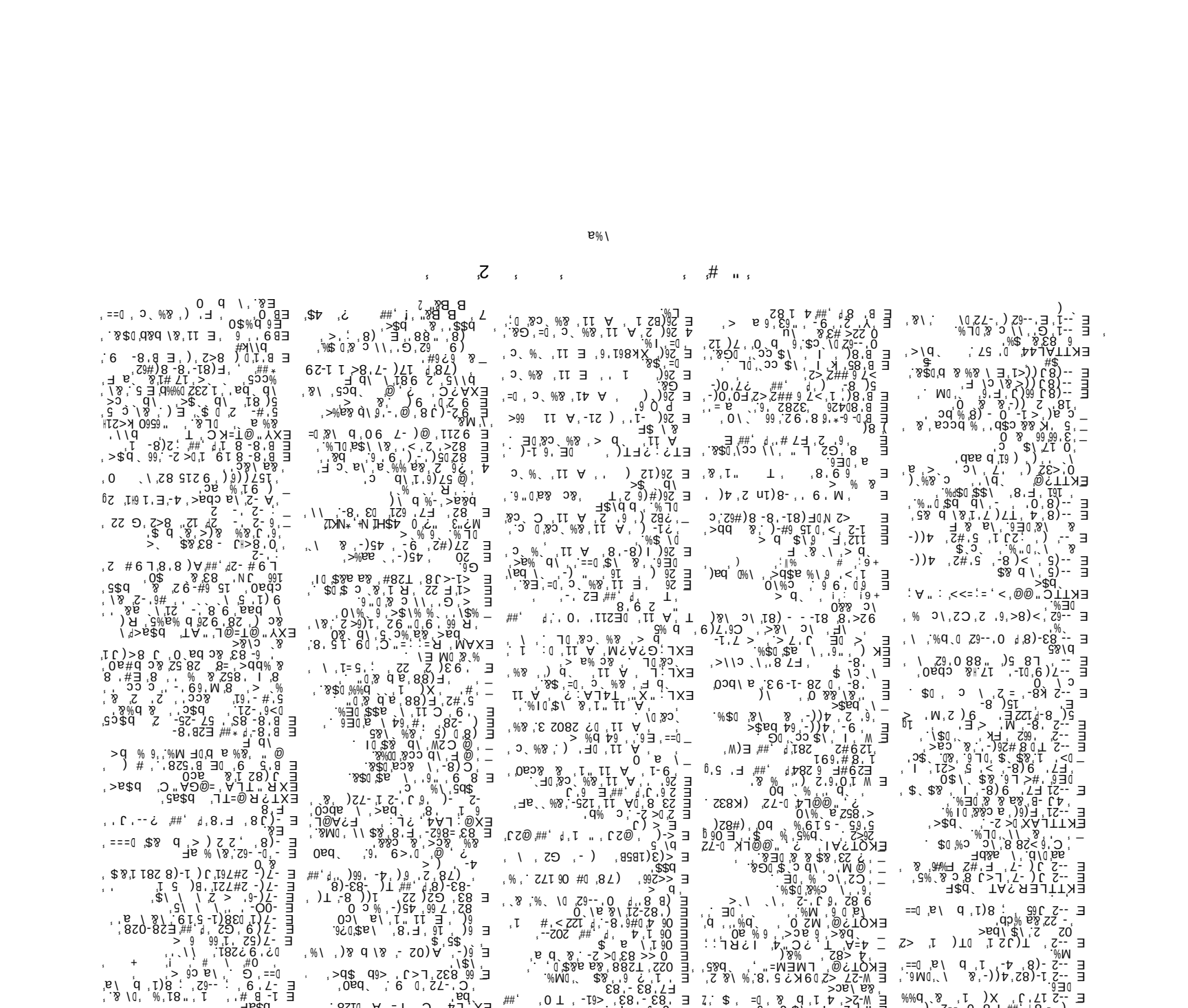

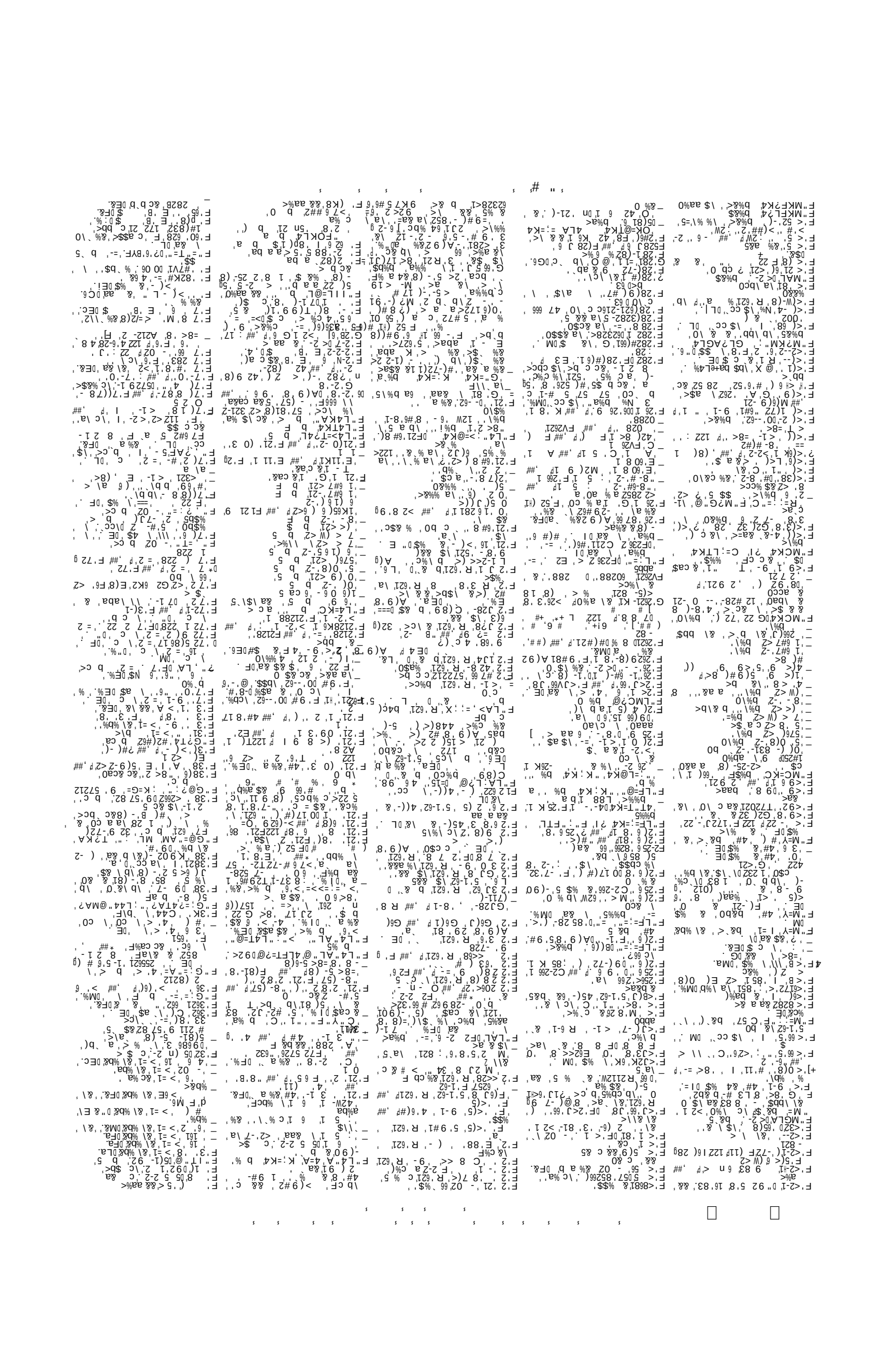

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F'85 8 -2'\b %'%5
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c '%$'
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F"C*$A"L'D<2'- \'&'
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F'82 17 '%$ 5
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'9272 1P ,## @'(-72 8'
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F'M2-2'F7',& a&' DE .' a'
\ '5' 81' D'1- (8 .'P
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%b&'D$&.
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E'`,`-`,`D`2`2-`-'\,  'DF&.'  &`&'G `,`#1-65`D#'T`15`1-`a`\5'  F"`A"E=@=LA4' &bcO'`E`-g
F'#`886"\a`&%< %%@' && F"%KF`,'@`C?@:`LX` &b`<'  F"`A"E=@=LA4' &bcO'`E`-g
F"`>AT"@'  &bB0  `6`-72'  2`-6`-72` F"`A"E=@=LA4'  &bcO'`E`-g
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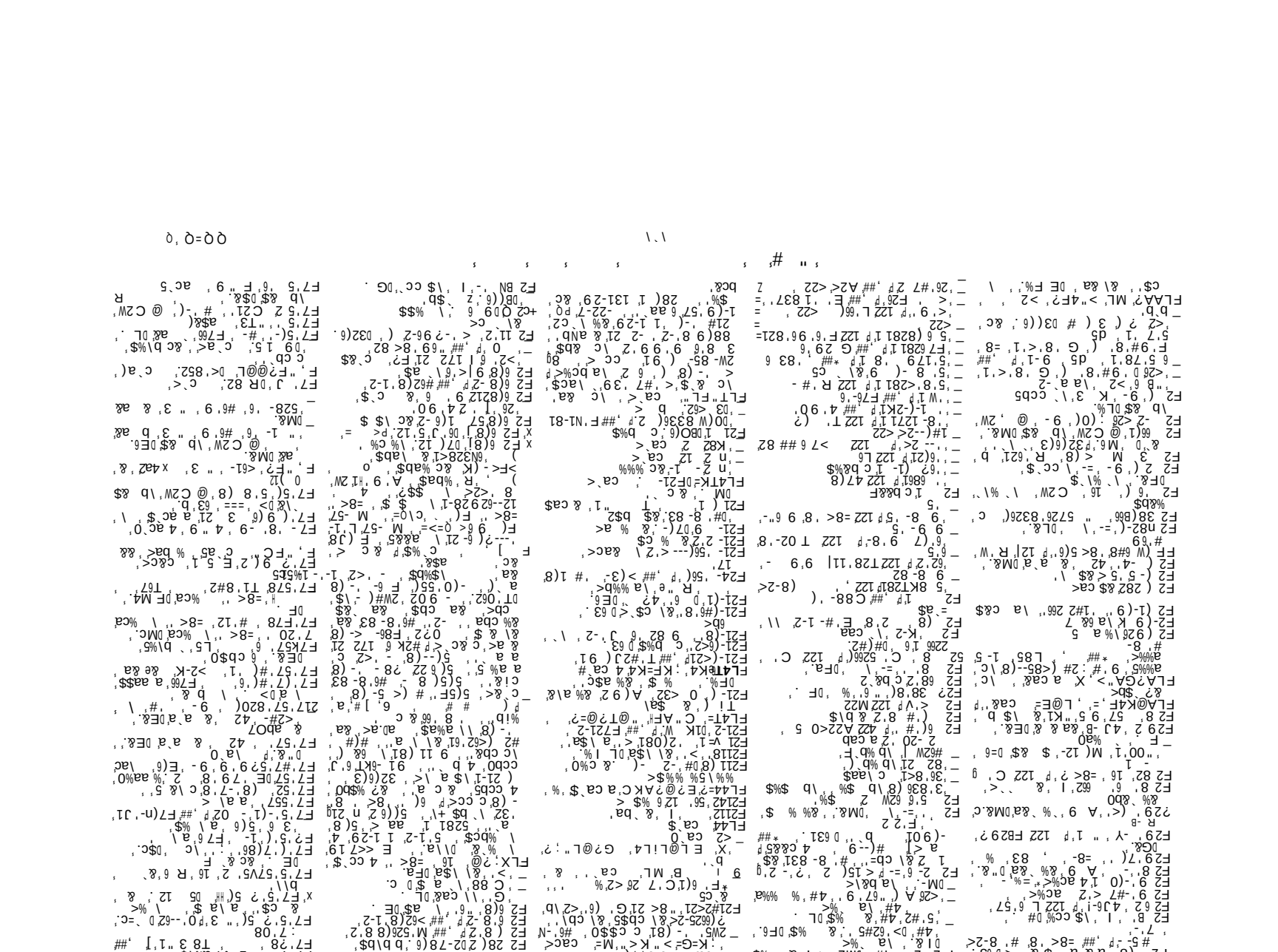

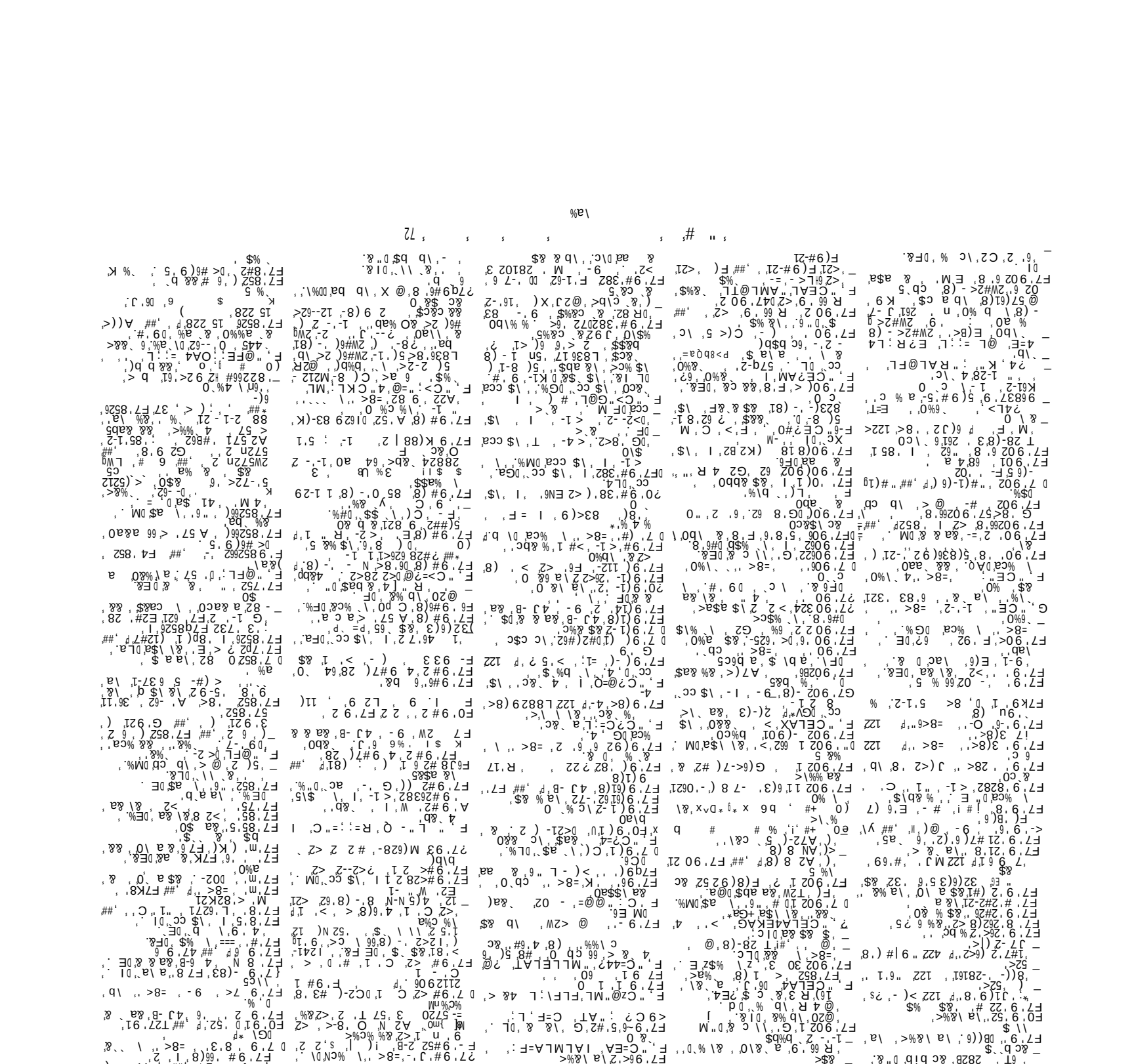

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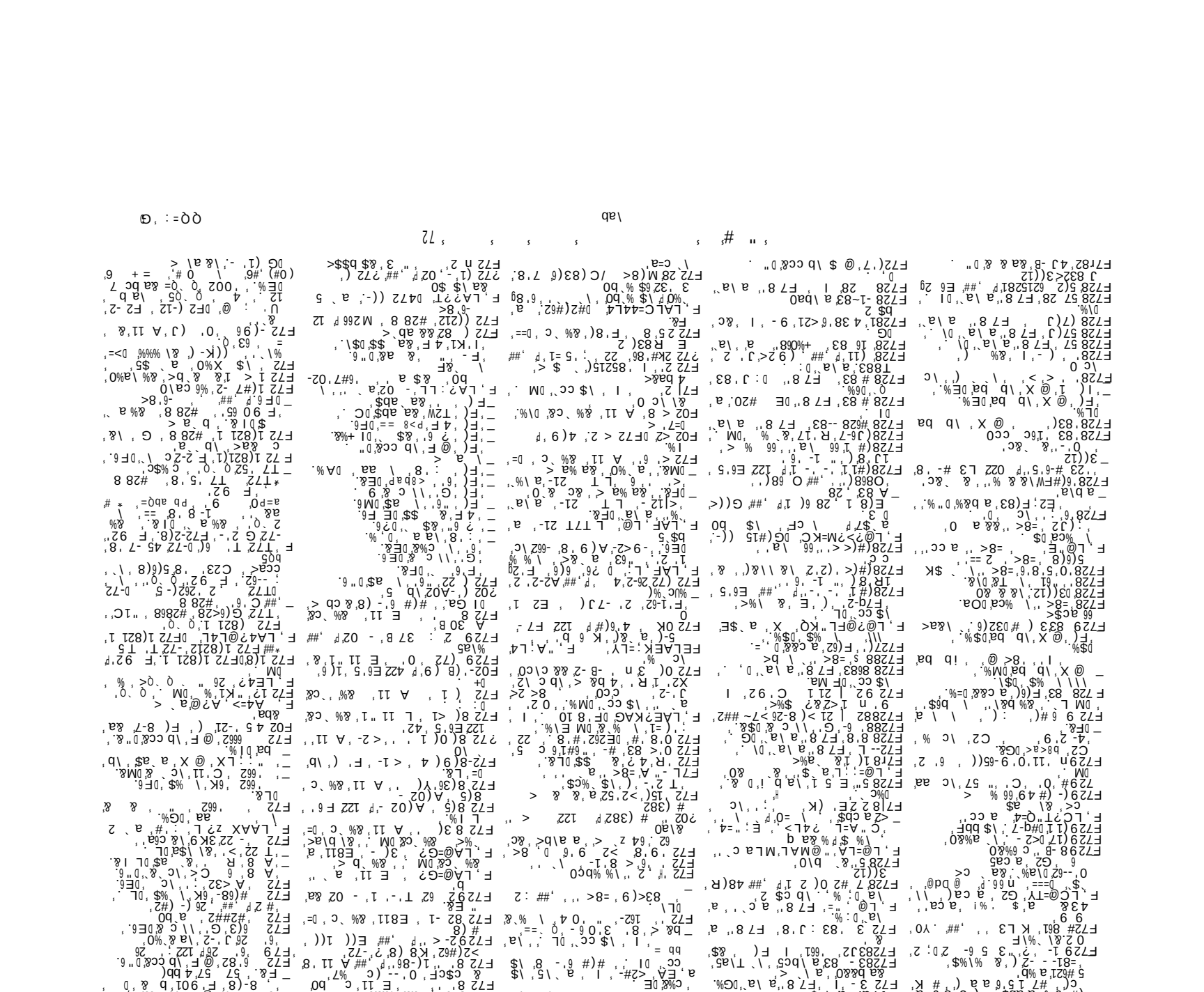

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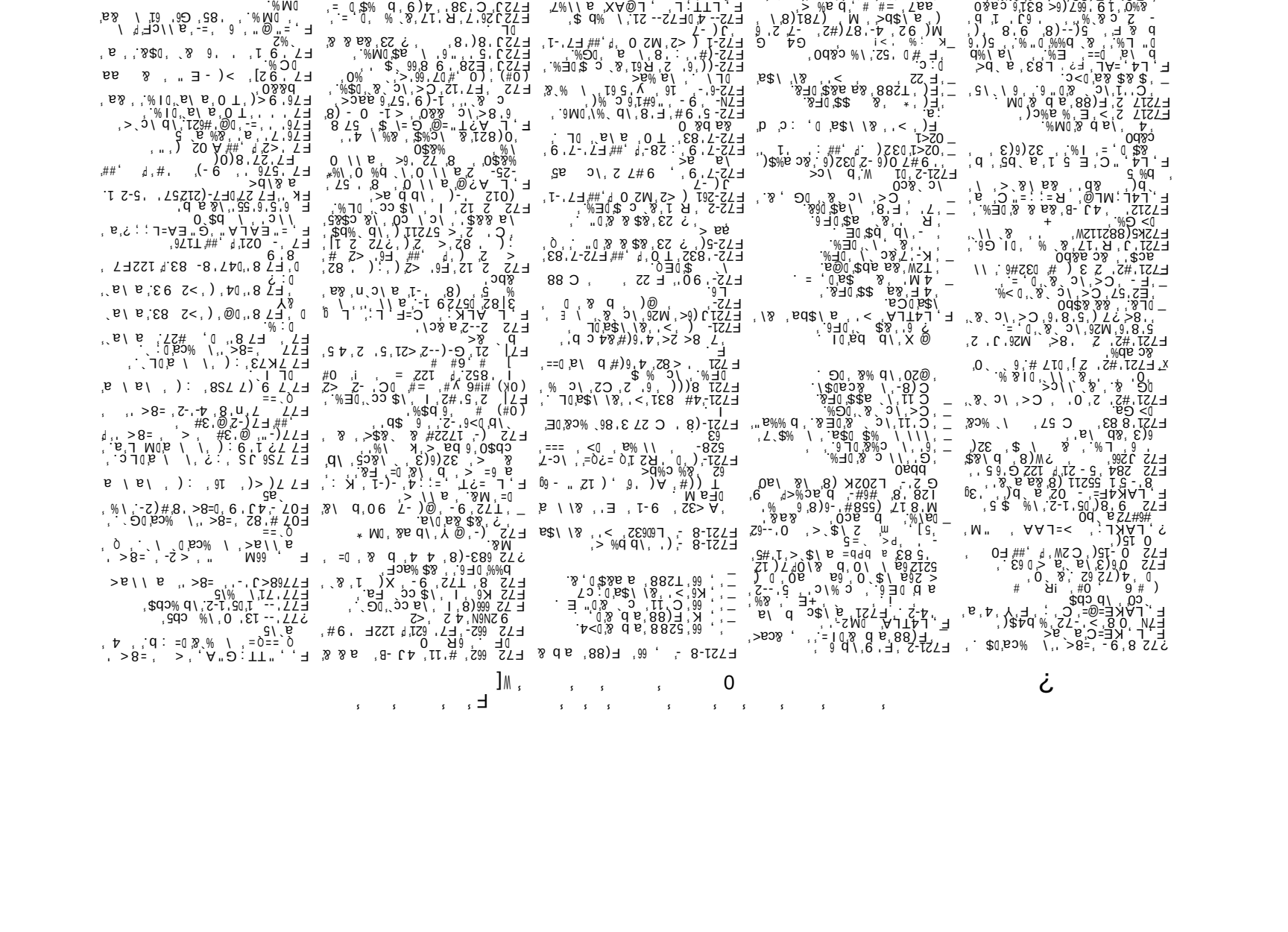

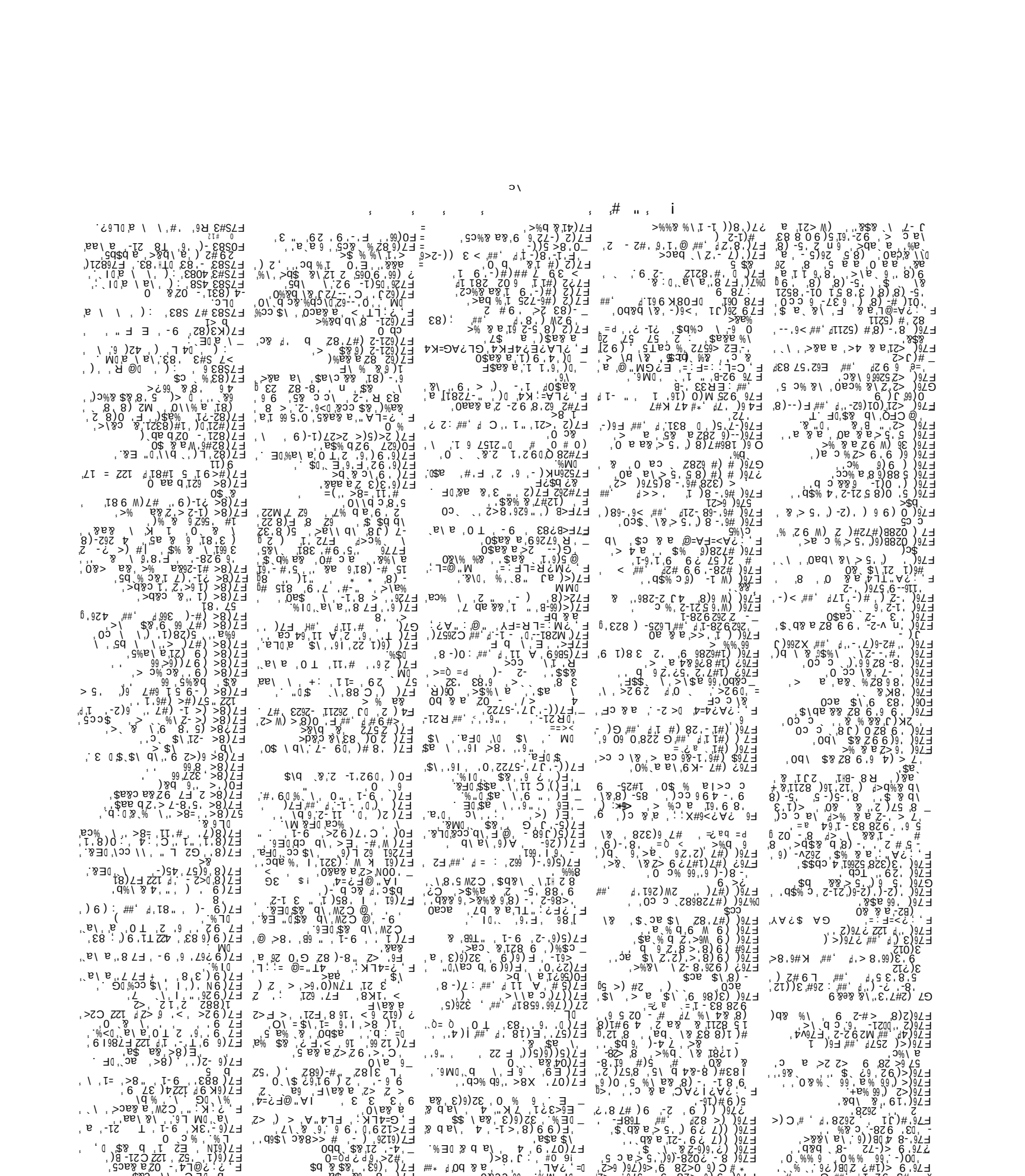

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F82- "G'0 8'1' &% 5' \\' F=@@@"C+C'a %ca5'P #-`g
"'?K 2 &&& C%%F -'t' 9,'6' &&,%& 0' 3|(
F 8<2-' ,## 4'3 -`B2 &'865 %'P 122F 88'9(8'
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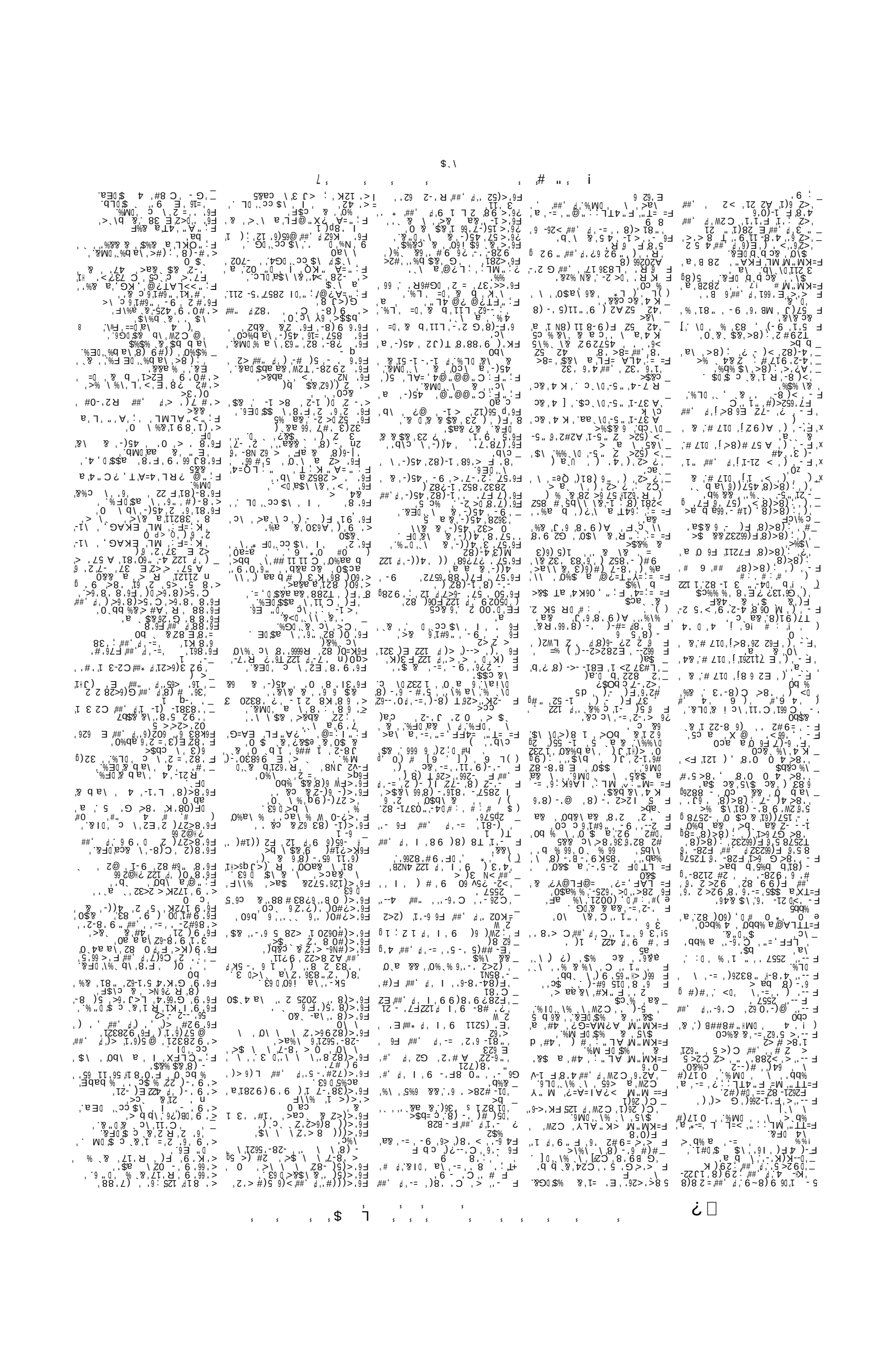

F6' 1'F'I'057291-'=`a`&< F6' &81F7 1-(#7' bb 5'\' E6' 6' ,'b bb' C&A0 F6' 12(,'J`  E6' 6' ,'8- `&'0bb0' F',&KL':ELATA"@M'5(8- a `aA<  F6' 26'8'&C`%`&O  E6' 6' ,'b bb'  DM  F6' 26'2`12382 1'(`& %%"'  %b\<  F6' 266" 6 1N&'  a  O`D&' F6' 26'8'&C`%`&O E6' 6' ,'b bb' DF FI' `O  .&83 &a`$(F6' 288'=-`P ,##'F7 ' 288'  F6' 288'=-`P ,##'F7 ' 288' F6' (`@ X'\b ba`DC%. F28-2 `@20`\b %& `D>`G. F- `66\ %$ `DM F- `66\ %$ `DM _1(8 F6' 2(`@ X'\b ba`DC%. F- T `\ &&`DFa. F- 8<'\ &&`DFa.  <22 15( 8-  F- `T& &`DL6.  F- `T& &`DL6.  26' 2 7( 12' (70G `7'9'(F- `G'\ $`DL6. F- `G'\ $`DL6. 15(8-M &<?2P ,##'M 8g F- `I'\ &&`DL6. F- `I'\ &&`DL6. F6' 2 83<2W#%?2 `&\b O'  F- `C'\ $`DL6.  F- `C'\ $`DL6.  F6' 2 83'2(#b' &$ `D=== 26' 2 83 (J#2 F- `E'\ $`DL6. F- `E'\ $`DL6. F6' 2 83<2W#%?2 `&\b O'  F- `F'\ $`DL6.  F- `F'\ $`DL6.  F6' 2 83 (J#2  F- `G'\\ c &`DE  F- `G'\\ c &`DE  F6' 2 83 (J#2  F- `H'\ c &`DL%.  F- `H'\ c &`DL%.  F6' 2 83 (J#2  F- `I'\ c &`DL%.  F- `I'\ c &`DL%.  F6' 2 83 (J#2  F- `J'\ c &`DL%.  F- `J'\ c &`DL%.  F6' 2 83 (J#2  F- `K'\ c &`DL%.  F- `K'\ c &`DL%.  F6' 2 83 (J#2  F- `L'\ c &`DL%.  F- `L'\ c &`DL%.  F6' 2 83 (J#2  F- `M'\ c &`DL%.  F- `M'\ c &`DL%.  F6' 2 83 (J#2  F- `N'\ c &`DL%.  F- `N'\ c &`DL%.  F6' 2 83 (J#2  F- `O'\ c &`DL%.  F- `O'\ c &`DL%.  F6' 2 83 (J#2  F- `P'\ c &`DL%.  F- `P'\ c &`DL%.  F6' 2 83 (J#2  F- `Q'\ c &`DL%.  F- `Q'\ c &`DL%.  F6' 2 83 (J#2  F- `R'\ c &`DL%.  F- `R'\ c &`DL%.  F6' 2 83 (J#2  F- `S'\ c &`DL%.  F- `S'\ c &`DL%.  F6' 2 83 (J#2  F- `T'\ c &`DL%.  F- `T'\ c &`DL%.  F6' 2 83 (J#2  F- `U'\ c &`DL%.  F- `U'\ c &`DL%.  F6' 2 83 (J#2  F- `V'\ c &`DL%.  F- `V'\ c &`DL%.  F6' 2 83 (J#2  F- `W'\ c &`DL%.  F- `W'\ c &`DL%.  F6' 2 83 (J#2  F- `X'\ c &`DL%.  F- `X'\ c &`DL%.  F6' 2 83 (J#2  F- `Y'\ c &`DL%.  F- `Y'\ c &`DL%.  F6' 2 83 (J#2  F- `Z'\ c &`DL%.  F- `Z'\ c &`DL%.  F6' 2 83 (J#2  F- `[' c &`DL%.  F- `[' c &`DL%.  F6' 2 83 (J#2  F- `\' c &`DL%.  F- `\' c &`DL%.  F6' 2 83 (J#2  F- `]' c &`DL%.  F- `]' c &`DL%.  F6' 2 83 (J#2  F- `^' c &`DL%.  F- `^' c &`DL%.  F6' 2 83 (J#2  F- `_' c &`DL%.  F- `_' c &`DL%. F6' 2 83 (J#2 F- ``' c &`DL%.  F- ``' c &`DL%.  F6' 2 83 (J#2  F- `a' c &`DL%.  F- `a' c &`DL%.  F6' 2 83 (J#2  F- `b' c &`DL%.  F- `b' c &`DL%.  F6' 2 83 (J#2  F- `c' c &`DL%.  F- `c' c &`DL%.  F6' 2 83 (J#2  F- `d' c &`DL%.  F- `d' c &`DL%.  F6' 2 83 (J#2  F- `e' c &`DL%.  F- `e' c &`DL%.  F6' 2 83 (J#2  F- `f' c &`DL%.  F- `f' c &`DL%.  F6' 2 83 (J#2  F- `g' c &`DL%.  F- `g' c &`DL%.  F6' 2 83 (J#2  F- `h' c &`DL%.  F- `h' c &`DL%.  F6' 2 83 (J#2  F- `i' c &`DL%.  F- `i' c &`DL%.  F6' 2 83 (J#2  F- `j' c &`DL%.  F- `j' c &`DL%.  F6' 2 83 (J#2  F- `k' c &`DL%.  F- `k' c &`DL%.  F6' 2 83 (J#2  F- `l' c &`DL%.  F- `l' c &`DL%.  F6' 2 83 (J#2  F- `m' c &`DL%.  F- `m' c &`DL%.  F6' 2 83 (J#2  F- `n' c &`DL%.  F- `n' c &`DL%.  F6' 2 83 (J#2  F- `o' c &`DL%.  F- `o' c &`DL%.  F6' 2 83 (J#2  F- `p' c &`DL%.  F- `p' c &`DL%.  F6' 2 83 (J#2  F- `q' c &`DL%.  F- `q' c &`DL%.  F6' 2 83 (J#2  F- `r' c &`DL%.  F- `r' c &`DL%.  F6' 2 83 (J#2  F- `s' c &`DL%.  F- `s' c &`DL%.  F6' 2 83 (J#2  F- `t' c &`DL%.  F- `t' c &`DL%.  F6' 2 83 (J#2  F- `u' c &`DL%.  F- `u' c &`DL%.  F6' 2 83 (J#2  F- `v' c &`DL%.  F- `v' c &`DL%.  F6' 2 83 (J#2  F- `w' c &`DL%.  F- `w' c &`DL%.  F6' 2 83 (J#2  F- `x' c &`DL%.  F- `x' c &`DL%.  F6' 2 83 (J#2  F- `y' c &`DL%.  F- `y' c &`DL%.  F6' 2 83 (J#2  F- `z' c &`DL%.  F- `z' c &`DL%.  F6' 2 83 (J#2  F- `{' c &`DL%.  F- `{' c &`DL%.  F6' 2 83 (J#2  F- `|' c &`DL%.  F- `|' c &`DL%.  F6' 2 83 (J#2  F- `}' c &`DL%.  F- `}' c &`DL%.  F6' 2 83 (J#2  F- `~' c &`DL%.  F- `~' c &`DL%.  F6' 2 83 (J#2  F- `' c &`DL%.  F- `' c &`DL%.  F6' 2 83 (J#2  F- `€' c &`DL%.  F- `€' c &`DL%.  F6' 2 83 (J#2  F- `' c &`DL%.  F- `' c &`DL%.  F6' 2 83 (J#2  F- `‚' c &`DL%.  F- `‚' c &`DL%.  F6' 2 83 (J#2  F- `ƒ' c &`DL%.  F- `ƒ' c &`DL%.  F6' 2 83 (J#2  F- `„' c &`DL%.  F- `„' c &`DL%.  F6' 2 83 (J#2  F- `…' c &`DL%.  F- `…' c &`DL%.  F6' 2 83 (J#2  F- `†' c &`DL%.  F- `†' c &`DL%.  F6' 2 83 (J#2  F- `‡' c &`DL%.  F- `‡' c &`DL%.  F6' 2 83 (J#2  F- `ˆ' c &`DL%.  F- `ˆ' c &`DL%.  F6' 2 83 (J#2  F- `‰' c &`DL%.  F- `‰' c &`DL%.  F6' 2 83 (J#2  F- `Š' c &`DL%.  F- `Š' c &`DL%.  F6' 2 83 (J#2  F- `‹' c &`DL%.  F- `‹' c &`DL%.  F6' 2 83 (J#2  F- `Œ' c &`DL%.  F- `Œ' c &`DL%.  F6' 2 83 (J#2  F- `' c &`DL%.  F- `' c &`DL%.  F6' 2 83 (J#2  F- `Ž' c &`DL%.  F- `Ž' c &`DL%.  F6' 2 83 (J#2  F- `' c &`DL%.  F- `' c &`DL%.  F6' 2 83 (J#2  F- `' c &`DL%.  F- `' c &`DL%.  F6' 2 83 (J#2  F- `‘' c &`DL%.  F- `‘' c &`DL%.  F6' 2 83 (J#2  F- `’' c &`DL%.  F- `’' c &`DL%.  F6' 2 83 (J#2  F- `“' c &`DL%.  F- `“' c &`DL%.  F6' 2 83 (J#2  F- `”' c &`DL%.  F- `”' c &`DL%.  F6' 2 83 (J#2  F- `•' c &`DL%.  F- `•' c &`DL%.  F6' 2 83 (J#2  F- `–' c &`DL%.  F- `–' c &`DL%.  F6' 2 83 (J#2  F- `—' c &`DL%.  F- `—' c &`DL%.  F6' 2 83 (J#2  F- `˜' c &`DL%.  F- `˜' c &`DL%.  F6' 2 83 (J#2  F- `™' c &`DL%.  F- `™' c &`DL%.  F6' 2 83 (J#2  F- `š' c &`DL%.  F- `š' c &`DL%.  F6' 2 83 (J#2  F- `›' c &`DL%.  F- `›' c &`DL%.  F6' 2 83 (J#2  F- `œ' c &`DL%.  F- `œ' c &`DL%.  F6' 2 83 (J#2  F- `' c &`DL%.  F- `' c &`DL%.  F6' 2 83 (J#2  F- `ž' c &`DL%.  F- `ž' c &`DL%.  F6' 2 83 (J#2  F- `Ÿ' c &`DL%.  F- `Ÿ' c &`DL%.  F6' 2 83 (J#2  F- `' c &`DL%.  F- `' c &`DL%.  F6' 2 83 (J#2  F- `¡' c &`DL%.  F- `¡' c &`DL%.  F6' 2 83 (J#2  F- `¢' c &`DL%.  F- `¢' c &`DL%.  F6' 2 83 (J#2  F- `£' c &`DL%.  F- `£' c &`DL%.  F6' 2 83 (J#2  F- `¤' c &`DL%.  F- `¤' c &`DL%.  F6' 2 83 (J#2  F- `¥' c &`DL%.  F- `¥' c &`DL%.  F6' 2 83 (J#2  F- `¦' c &`DL%.  F- `¦' c &`DL%.  F6' 2 83 (J#2  F- `§' c &`DL%.  F- `§' c &`DL%.  F6' 2 83 (J#2  F- `¨' c &`DL%.  F- `¨' c &`DL%.  F6' 2 83 (J#2  F- `©' c &`DL%.  F- `©' c &`DL%.  F6' 2 83 (J#2  F- `ª' c &`DL%.  F- `ª' c &`DL%.  F6' 2 83 (J#2  F- `«' c &`DL%.  F- `«' c &`DL%.  F6' 2 83 (J#2  F- `¬' c &`DL%.  F- `¬' c &`DL%.  F6' 2 83 (J#2  F- `' c &`DL%.  F- `' c &`DL%.  F6' 2 83 (J#2  F- `®' c &`DL%.  F- `®' c &`DL%.  F6' 2 83 (J#2  F- `¯' c &`DL%.  F- `¯' c &`DL%.  F6' 2 83 (J#2  F- `°' c &`DL%.  F- `°' c &`DL%.  F6' 2 83 (J#2  F- `±' c &`DL%.  F- `±' c &`DL%.  F6' 2 83 (J#2  F- `²' c &`DL%.  F- `²' c &`DL%.  F6' 2 83 (J#2  F- `³' c &`DL%.  F- `³' c &`DL%.  F6' 2 83 (J#2  F- `´' c &`DL%.  F- `´' c &`DL%.  F6' 2 83 (J#2  F- `µ' c &`DL%.  F- `µ' c &`DL%.  F6' 2 83 (J#2  F- `¶' c &`DL%.  F- `¶' c &`DL%.  F6' 2 83 (J#2  F- `·' c &`DL%.  F- `·' c &`DL%.  F6' 2 83 (J#2  F- `¸' c &`DL%.  F- `¸' c &`DL%.  F6' 2 83 (J#2  F- `¹' c &`DL%.  F- `¹' c &`DL%.  F6' 2 83 (J#2  F- `º' c &`DL%.  F- `º' c &`DL%.  F6' 2 83 (J#2  F- `»' c &`DL%.  F- `»' c &`DL%.  F6' 2 83 (J#2  F- `¼' c &`DL%.  F- `¼' c &`DL%.  F6' 2 83 (J#2  F- `½' c &`DL%.  F- `½' c &`DL%.  F6' 2 83 (J#2  F- `¾' c &`DL%.  F- `¾' c &`DL%.  F6' 2 83 (J#2  F- `¿' c &`DL%.  F- `¿' c &`DL%.  F6' 2 83 (J#2  F- `À' c &`DL%.  F- `À' c &`DL%.  F6' 2 83 (J#2  F- `Á' c &`DL%.  F- `Á' c &`DL%.  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F6' 2 83 (J#2  F- `ê' c &`DL%.  F- `ê' c &`DL%.  F6' 2 83 (J#2  F- `ë' c &`DL%.  F- `ë' c &`DL%.  F6' 2 83 (J#2  F- `ì' c &`DL%.  F- `ì' c &`DL%.  F6' 2 83 (J#2  F- `í' c &`DL%.  F- `í' c &`DL%.  F6' 2 83 (J#2  F- `î' c &`DL%.  F- `î' c &`DL%.  F6' 2 83 (J#2  F- `ï' c &`DL%.  F- `ï' c &`DL%.  F6' 2 83 (J#2  F- `ð' c &`DL%.  F- `ð' c &`DL%.  F6' 2 83 (J#2  F- `ñ' c &`DL%.  F- `ñ' c &`DL%.  F6' 2 83 (J#2  F- `ò' c &`DL%.  F- `ò' c &`DL%.  F6' 2 83 (J#2  F- `ó' c &`DL%.  F- `ó' c &`DL%.  F6' 2 83 (J#2  F- `ô' c &`DL%.  F- `ô' c &`DL%.  F6' 2 83 (J#2  F- `õ' c &`DL%.  F- `õ' c &`DL%.  F6' 2 83 (J#2  F- `ö' c &`DL%.  F- `ö' c &`DL%.  F6' 2 83 (J#2  F- `÷' c &`DL%.  F- `÷' c &`DL%.  F6' 2 83 (J#2  F- `ø' c &`DL%.  F- `ø' c &`DL%.  F6' 2 83 (J#2  F- `ù' c &`DL%.  F- `ù' c &`DL%.  F6' 2 83 (J#2  F- `ú' c &`DL%.  F- `ú' c &`DL%.  F6' 2 83 (J#2  F- `û' c &`DL%.  F- `û' c &`DL%.  F6' 2 83 (J#2  F- `ü' c &`DL%.  F- `ü' c &`DL%.  F6' 2 83 (J#2  F- `ý' c &`DL%.  F- `ý' c &`DL%.  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F6' 2 83 (J#2  F- `ĺ' c &`DL%.  F- `ĺ' c &`DL%.  F6' 2 83 (J#2  F- `Ļ' c &`DL%.  F- `Ļ' c &`DL%.  F6' 2 83 (J#2  F- `ļ' c &`DL%.  F- `ļ' c &`DL%.  F6' 2 83 (J#2  F- `Ľ' c &`DL%.  F- `Ľ' c &`DL%.  F6' 2 83 (J#2  F- `ľ' c &`DL%.  F- `ľ' c &`DL%.  F6' 2 83 (J#2  F- `Ŀ' c &`DL%.  F- `Ŀ' c &`DL%.  F6' 2 83 (J#2  F- `ŀ' c &`DL%.  F- `ŀ' c &`DL%.  F6' 2 83 (J#2  F- `Ł' c &`DL%.  F- `Ł' c &`DL%.  F6' 2 83 (J#2  F- `ł' c &`DL%.  F- `ł' c &`DL%.  F6' 2 83 (J#2  F- `Ń' c &`DL%.  F- `Ń' c &`DL%.  F6' 2 83 (J#2  F- `ń' c &`DL%.  F- `ń' c &`DL%.  F6' 2 83 (J#2  F- `Ņ' c &`DL%.  F- `Ņ' c &`DL%.  F6' 2 83 (J#2  F- `ņ' c &`DL%.  F- `ņ' c &`DL%.  F6' 2 83 (J#2  F- `Ň' c &`DL%.  F- `Ň' c &`DL%.  F6' 2 83 (J#2  F- `ň' c &`DL%.  F- `ň' c &`DL%.  F6' 2 83 (J#2  F- `ŉ' c &`DL%.  F- `ŉ' c &`DL%.  F6' 2 83 (J#2  F- `Ŋ' c &`DL%.  F- `Ŋ' c &`DL%.  F6' 2 83 (J#2  F- `ŋ' c &`DL%.  F- `ŋ' c &`DL%.  F6' 2 83 (J#2  F- `Ō' c &`DL%.  F- `Ō' c &`DL%.  F6' 2 83 (J#2  F- `ō' c &`DL%.  F- `ō' c &`DL%.  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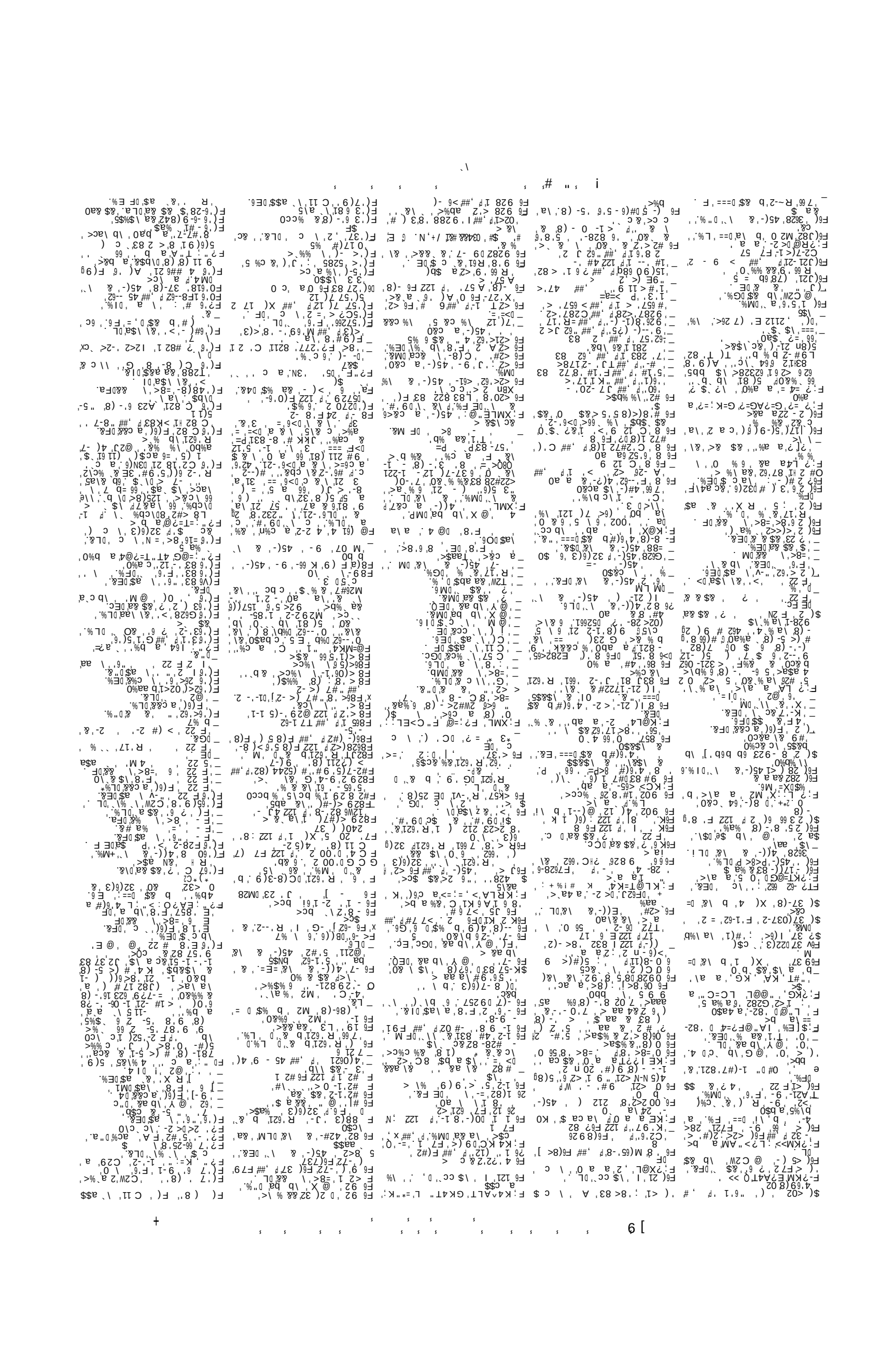
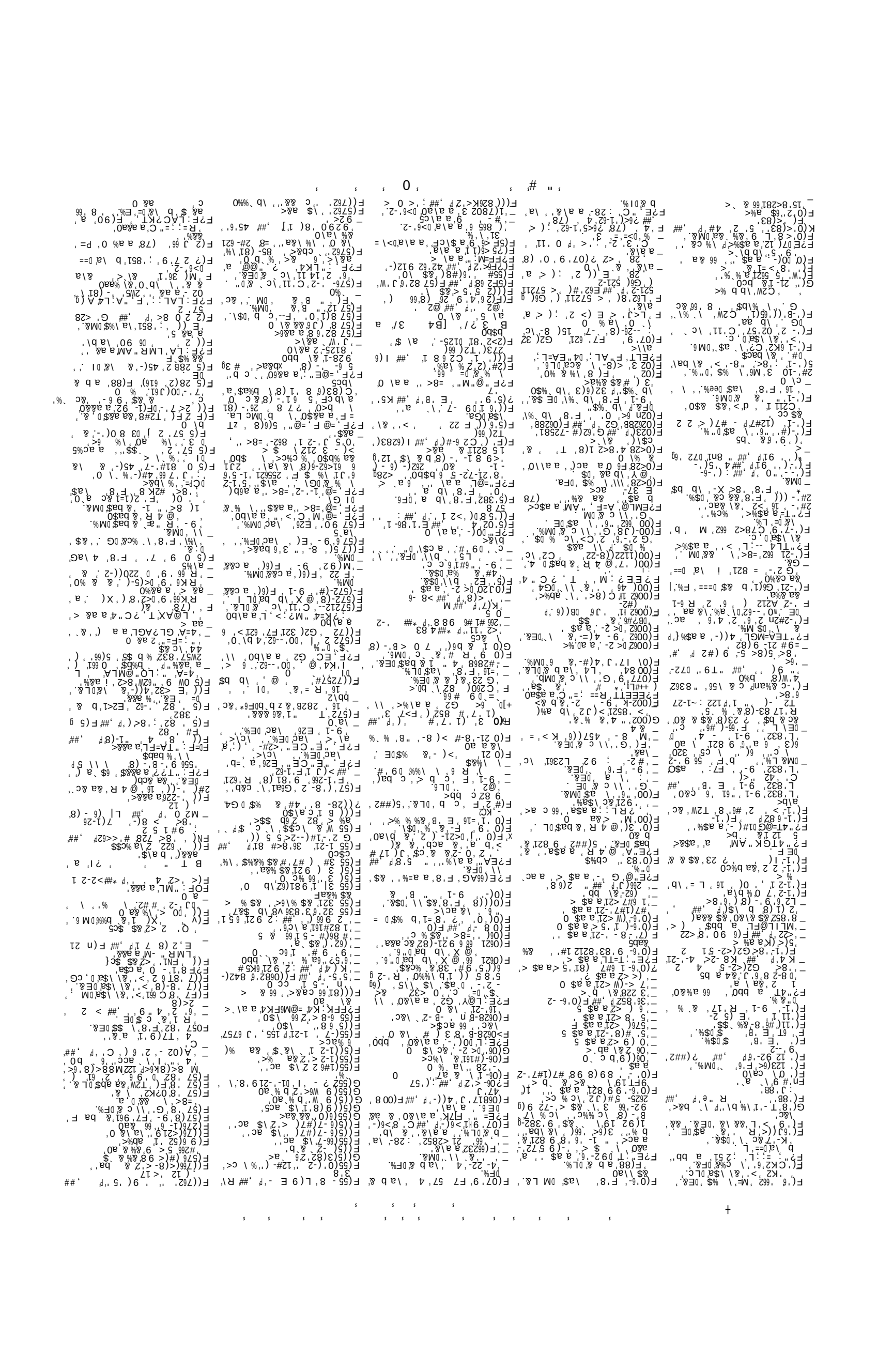
F6' 2 83 (J#2  F- `Ŷ' c &`DL%.  F- `Ŷ' c &`DL%.  F6' 2 83 (J#2  F- `ŷ' c &`DL%.  F- `ŷ' c &`DL%.  F6' 2 83 (J#2  F- `Ÿ' c &`DL%.  F- `Ÿ' c &`DL%.  F6' 2 83 (J#2  F- `Ź' c &`DL%.  F- `Ź' c &`DL%.  F6' 2 83 (J#2  F- `ź' c &`DL%.  F- `ź' c &`DL%.  F6' 2 83 (J#2  F- `Ż' c &`DL%.  F- `Ż' c &`DL%.  F6' 2 83 (J#2  F- `ż' c &`DL%.  F- `ż' c &`DL%.  F6' 2 83 (J#2  F- `Ž' c &`DL%.  F- `Ž' c &`DL%.  F6' 2 83 (J#2  F- `ž' c &`DL%.  F- `ž' c &`DL%.  F6' 2 83 (J#2  F- `ſ' c &`DL%.  F- `ſ' c &`DL%.  F6' 2 83 (J#2  F- `ƀ' c &`DL%.  F- `ƀ' c &`DL%.  F6' 2 83 (J#2  F- `Ɓ' c &`DL%.  F- `Ɓ' c &`DL%.  F6' 2 83 (J#2  F- `Ƃ' c &`DL%.  F- `Ƃ' c &`DL%.  F6' 2 83 (J#2  F- `ƃ' c &`DL%.  F- `ƃ' c &`DL%.  F6' 2 83 (J#2  F- `Ƅ' c &`DL%.  F- `Ƅ' c &`DL%.  F6' 2 83 (J#2  F- `ƅ' c &`DL%.  F- `ƅ' c &`DL%.  F6' 2 83 (J#2  F- `Ɔ' c &`DL%.  F- `Ɔ' c &`DL%.  F6' 2 83 (J#2  F- `Ƈ' c &`DL%.  F- `Ƈ' c &`DL%.  F6' 2 83 (J#2  F- `ƈ' c &`DL%.  F- `ƈ' c &`DL%.  F6' 2 83 (J#2  F- `Ɖ' c &`DL%.  F- `Ɖ' c &`DL%.  F6' 2 83 (J#2  F- `Ɗ' c &`DL%.  F- `Ɗ' c &`DL%.  F6' 2 83 (J#2  F- `Ƌ' c &`DL%.  F- `Ƌ' c &`DL%.  F6' 2 83 (J#2  F- `ƌ' c &`DL%.  F- `ƌ' c &`DL%.  F6' 2 83 (J#2  F- `ƍ' c &`DL%.  F- `ƍ' c &`DL%.  F6' 2 83 (J#2  F- `Ǝ' c &`DL%.  F- `Ǝ' c &`DL%.  F6' 2 83 (J#2  F- `Ə' c &`DL%.  F- `Ə' c &`DL%.  F6' 2 83 (J#2  F- `Ɛ' c &`DL%.  F- `Ɛ' c &`DL%.  F6' 2 83 (J#2  F- `Ƒ' c &`DL%.  F- `Ƒ' c &`DL%.  F6' 2 83 (J#2  F- `ƒ' c &`DL%.  F- `ƒ' c &`DL%.  F6' 2 83 (J#2  F- `Ɠ' c &`DL%.  F- `Ɠ' c &`DL%.  F6' 2 83 (J#2  F- `Ɣ' c &`DL%.  F- `Ɣ' c &`DL%.  F6' 2 83 (J#2  F- `ƕ' c &`DL%.  F- `ƕ' c &`DL%.  F6' 2 83 (J#2  F- `Ɩ' c &`DL%.  F- `Ɩ' c &`DL%.  F6' 2 83 (J#2  F- `Ɨ' c &`DL%.  F- `Ɨ' c &`DL%.  F6' 2 83 (J#2  F- `Ƙ' c &`DL%.  F- `Ƙ' c &`DL%.  F6' 2 83 (J#2  F- `ƙ' c &`DL%.  F- `ƙ' c &`DL%.  F6' 2 83 (J#2  F- `ƚ' c &`DL%.  F- `ƚ' c &`DL%.  F6' 2 83 (J#2  F- `ƛ' c &`DL%.  F- `ƛ' c &`DL%.  F6' 2 83 (J#2  F- `Ɯ' c &`DL%.  F- `Ɯ' c &`DL%.  F6' 2 83 (J#2  F- `Ɲ' c &`DL%.  F- `Ɲ' c &`DL%.  F6' 2 83 (J#2  F- `ƞ' c &`DL%.  F- `ƞ' c &`DL%.  F6' 2 83 (J#2  F- `Ɵ' c &`DL%.  F- `Ɵ' c &`DL%.  F6' 2 83 (J#2  F- `Ơ' c &`DL%.  F- `Ơ' c &`DL%.  F6' 2 83 (J#2  F- `ơ' c &`DL%.  F- `ơ' c &`DL%.  F6' 2 83 (J#2  F- `Ƣ' c &`DL%.  F- `Ƣ' c &`DL%.  F6' 2 83 (J#2  F- `ƣ' c &`DL%.  F- `ƣ' c &`DL%.  F6' 2 83 (J#2  F- `Ƥ' c &`DL%.  F- `Ƥ' c &`DL%.  F6' 2 83 (J#2  F- `ƥ' c &`DL%.  F- `ƥ' c &`DL%.  F6' 2 83 (J#2  F- `Ʀ' c &`DL%.  F- `Ʀ' c &`DL%.  F6' 2 83 (J#2  F- `Ƨ' c &`DL%.  F- `Ƨ' c &`DL%.  F6' 2 83 (J#2  F- `ƨ' c &`DL%.  F- `ƨ' c &`DL%.  F6' 2 83 (J#2  F- `Ʃ' c &`DL%.  F- `Ʃ' c &`DL%.  F6' 2 83 (J#2  F- `ƪ' c &`DL%.  F- `ƪ' c &`DL%.  F6' 2 83 (J#2  F- `ƫ' c &`DL%.  F- `ƫ' c &`DL%.  F6' 2 83 (J#2  F- `Ƭ' c &`DL%.  F- `Ƭ' c &`DL%.  F6' 2 83 (J#2  F- `ƭ' c &`DL%.  F- `ƭ' c &`DL%.  F6' 2 83 (J#2  F- `Ʈ' c &`DL%.  F- `Ʈ' c &`DL%.  F6' 2 83 (J#2  F- `Ư' c &`DL%.  F- `Ư' c &`DL%.





F(5 2 9(-7 ' '@ , \b' 4C44$ K,+- ,E '9q4q)/4'6)/+ d< 62'&$ 6?65' ' '

F2GJ;,"@'F,."A;L4'IA"@g F?=CEA"'>(-'a'&'' F?=A'a a'' a a%\<' #'-' '8,5 3'<28'%$$('$%a b'DE&.'(q F?.'EL:'T #'L FA?=44X F7'621 9'n 61'n a'b5 F(6< #'121'1'T d('?'&'T28<'(6 <G 2 5'' d('?'&'T28<'(6 F(6< #'121'1'T d('?'&'T28<'(6 E?'.'?2T'."'a aa%' F(6< <32' M2 ' b '%$ D16' L&'.bD F(60 8'00&8' 9-1' 2-'&' F(60 8'00&8' 9-1' 2-'&' F?'.EL:'T #'L FA?=44X F7'621 9'n 61'n a'b5 F(6< # |112<' (6?# ,## F26< F(6< # |112<' (6?# ,## F26< 5 82 aa'D"&. '(6 <32' M2 ' b '%$ D16' L&'.bD F(6< <32' M2 ' b '%$ D16' F(6< <32' M2 ' b '%$ D16' F(6< <32' M2 ' b '%$ D16'

F(62 <32' 6' 2' Y' \b && (#L (6'P 122 (' (6 #' F(63'8' (78'\b bb$$' F263' ,45(-'&_ \' 2!&%' \%< F#K\1# <'2& &' $c?' DCK-2 '6'D2- '\a 'cA<' F(6 8-- 8 @ 4 R'\b ' %' L ' b $0' _32(6\3 ' b 0 &' ,'L N a' < _ 5(28'8-'\a \ c' _12n -'2 a ^ <' \ && F?K'W<!0 - ,'P 122 F(62R' -' F?:'=C"'C21'a a^ ' \' ,' F(62 (8' =8< ' \ %' &' _ 90'b \&'D=' M&. F(62 <'2 &< F(66232' b#%b'$< F(62 ?' H<' ,'# F7a- &6 (' G'4' > ' <'2F(6 38 '< 2' (# <'2F(6 38 '< 2' (_ # '6 (' I '852' a a'4'' F(62 "a& $ F#62 82!a %!5 5(6(8'8.-(8' -'-2 9 #-' 66 ' aAa(' 3 28(- J i' \$ _&bb' \% a $' 9 <2 (F(6 <'2\ b F(6 '<2\ b F#62 &&. F(62 (R' F E &$ cc&' F?:!"O'4F "KX-L^A'a a^&O' F(62 ?' F E &$ cc&' F?:'=C"'C21'a a^ ' \' ,' F(62 <'2 &< F(66232' b#%b'$

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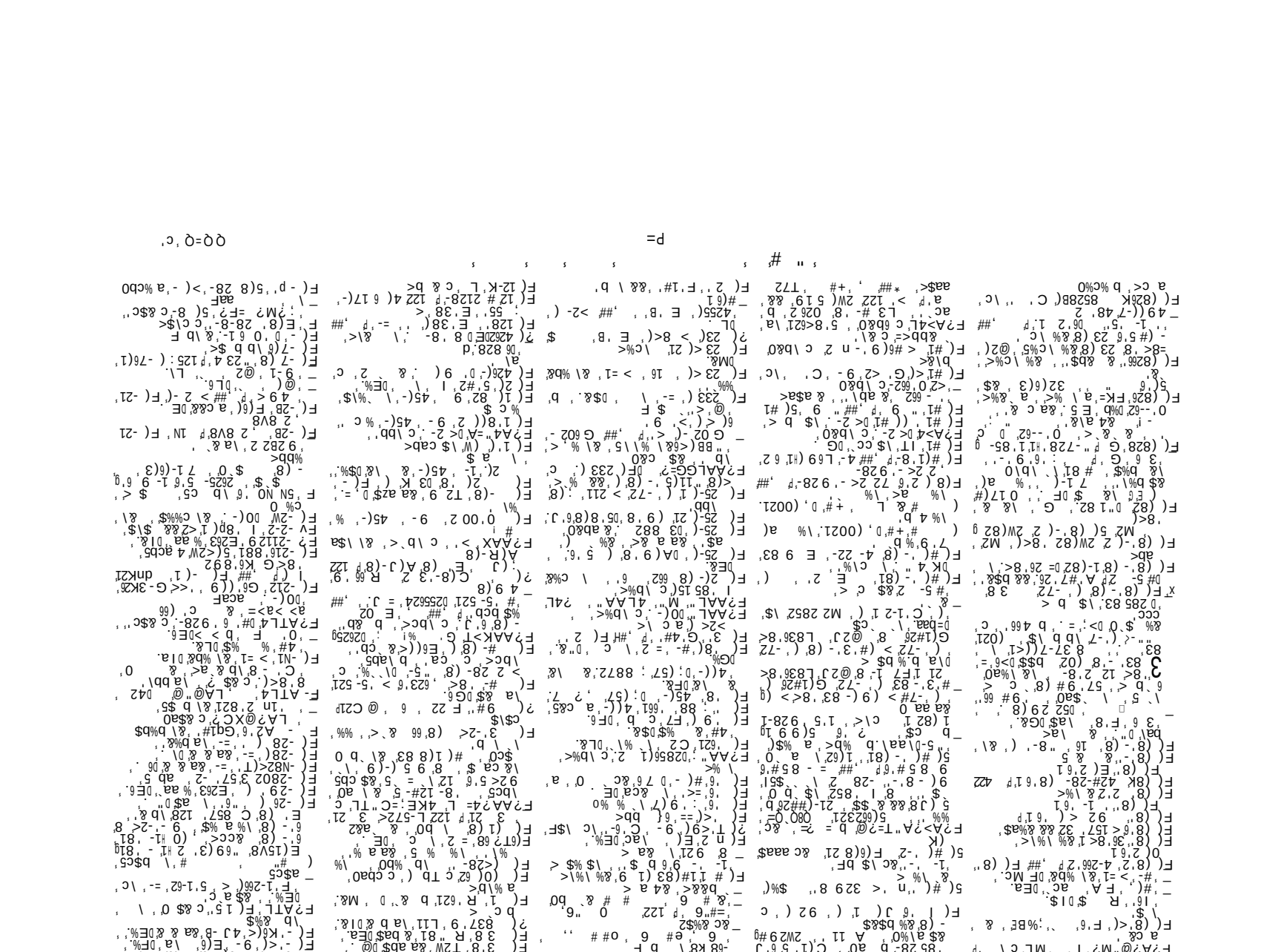
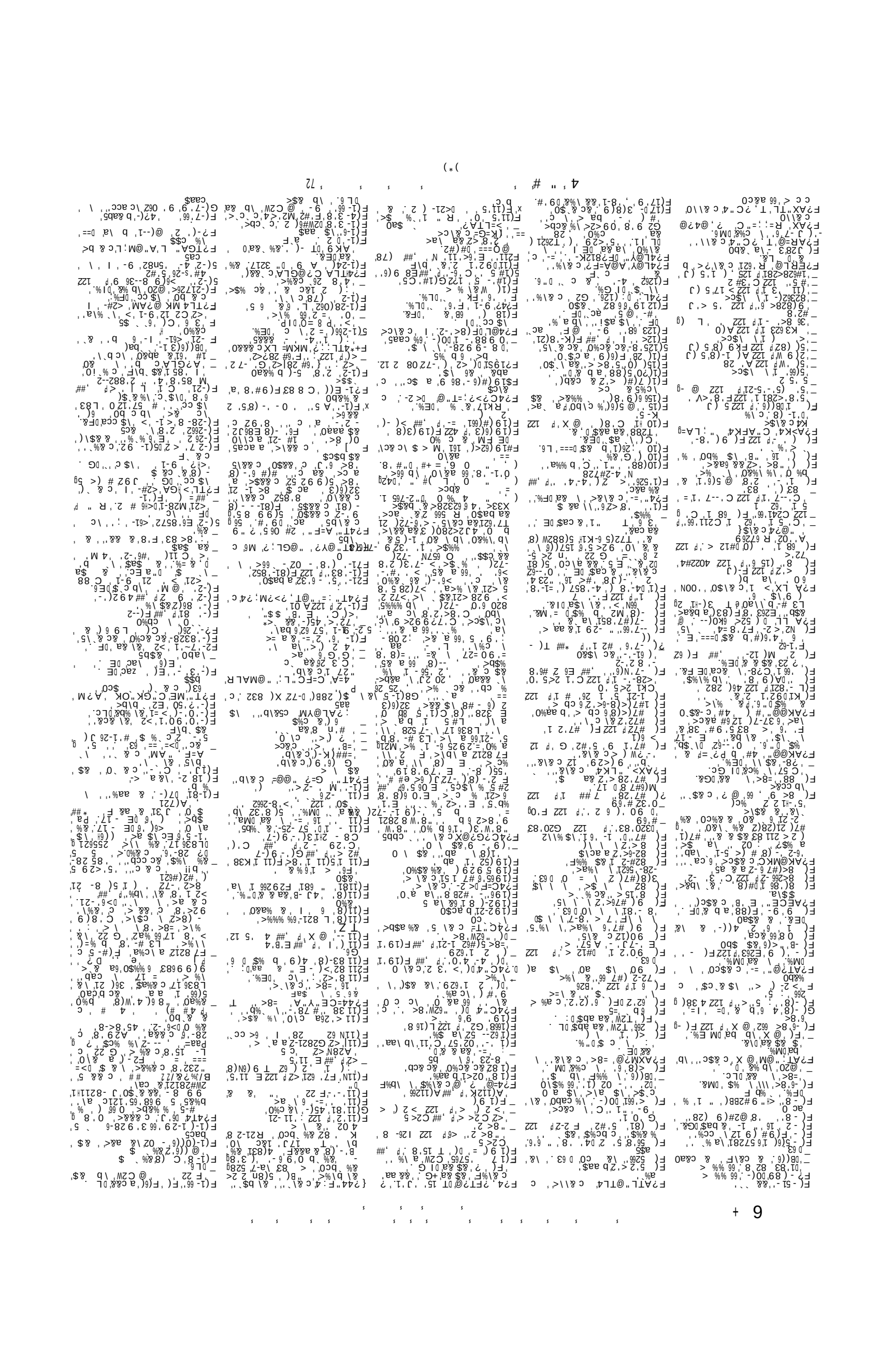
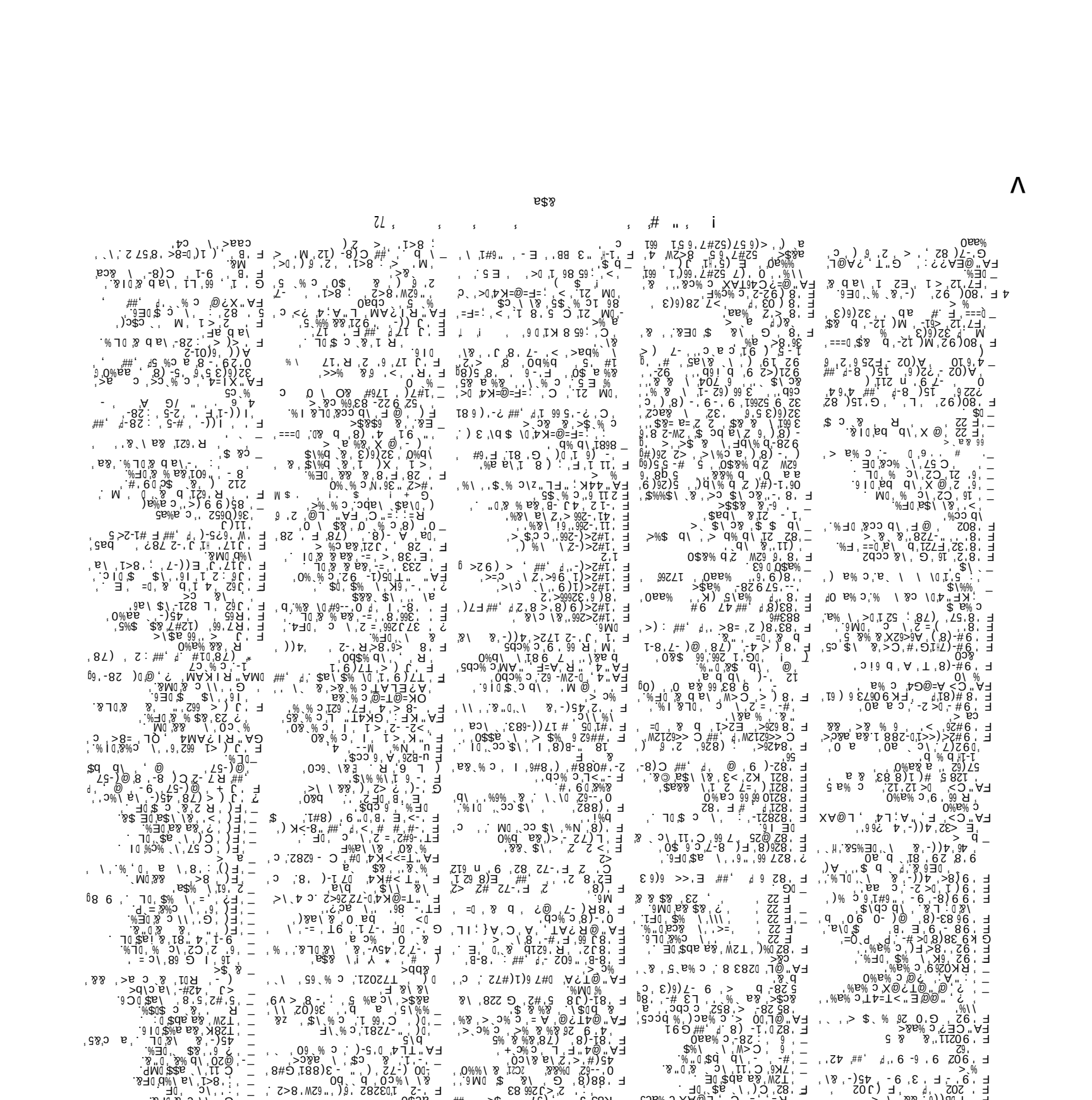
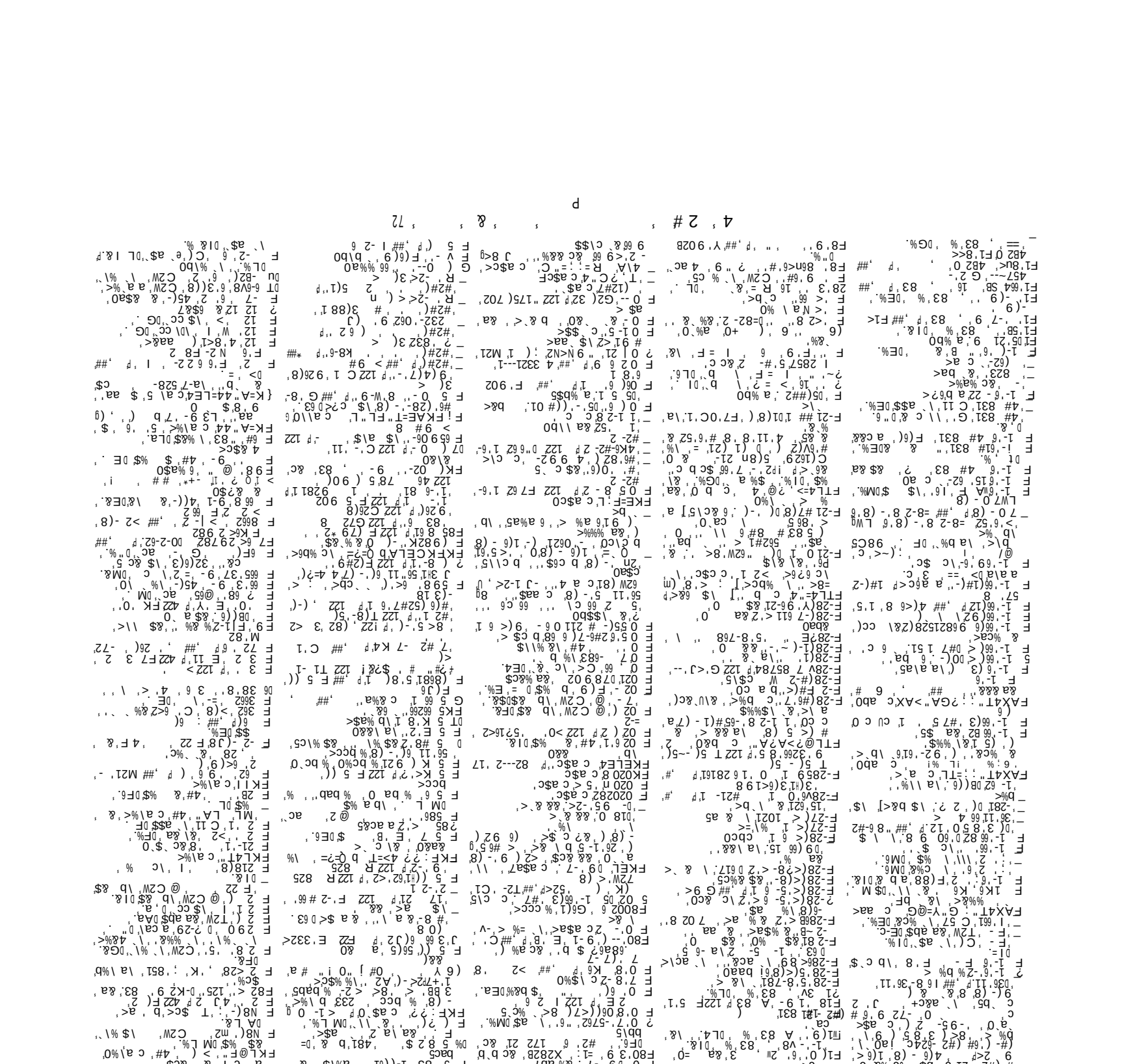




F .T92 #' ' D285831' 6?' b,' F?KA@TL>?=@T D0831'5 ,C' F?KA"XLA>=LAAL!A"@ %\',\b c 0Ŧ A'92',&&' (6 %0\0 <(5 928-'\% D>3',& %b<' F(8-'6 82',"6',\ a$ DF ,' F(8-'6 82',"6',\$ a$ DMa. ?(9-2 #(-28-D72 '6< ;'Ŧ ,## _'5 \ 6&0' 5 ,%' ,&&' F(8-'6 82',"6',\$

F? CFT?@: `c% `'=` `.,.,C `D5a. — `$&$&a'E. — >`'&\ \$a`D`=&. — `T288&a a&$`DE&. — `,`,&`,,, `DE%. — `F(.C11`\ `a$%`DF — F`(<2=8 21-63`- (8` c\a5' F(`( 92&a`\&` F( 6 <2#-` E 9`&% `&a F(J02`%b%\0`b c%bO0' F(J6 83`6K`\ %$ `DL` F(J7832`4 `b`&`D= ` F(J28`R `,`&` aa$`DF%. F(J`-`&`\\`>?&. F(J`-`,`&`\\`>?&. F(J`-`1"6`\ a$`DM` F(J`-`@ 4 R`\b` %`DE%.` F(J`1 `27`83 `DA2'< F(J`1`R `27`83 `DA2'< 9(82 `4`,`#H `A2'< 9(82 `F(J`1`LX!"T`L A4'c%`<' F(J62`R`F(J62`%`$5`\b' F(J`-`83`(78`c\$5'ac\'' F(J`-`@ 4R`\b`%`DL%.' F(J`2=i1=8<?`,##`C'' F(J`-`2=i1=8<?`,##`C'' F(J`-`@ 4R`\b`%`DL%.' F(J`-`@ 4R`\b`%`DL%.' F(J`-`@ 4R`\b`%`DL%.





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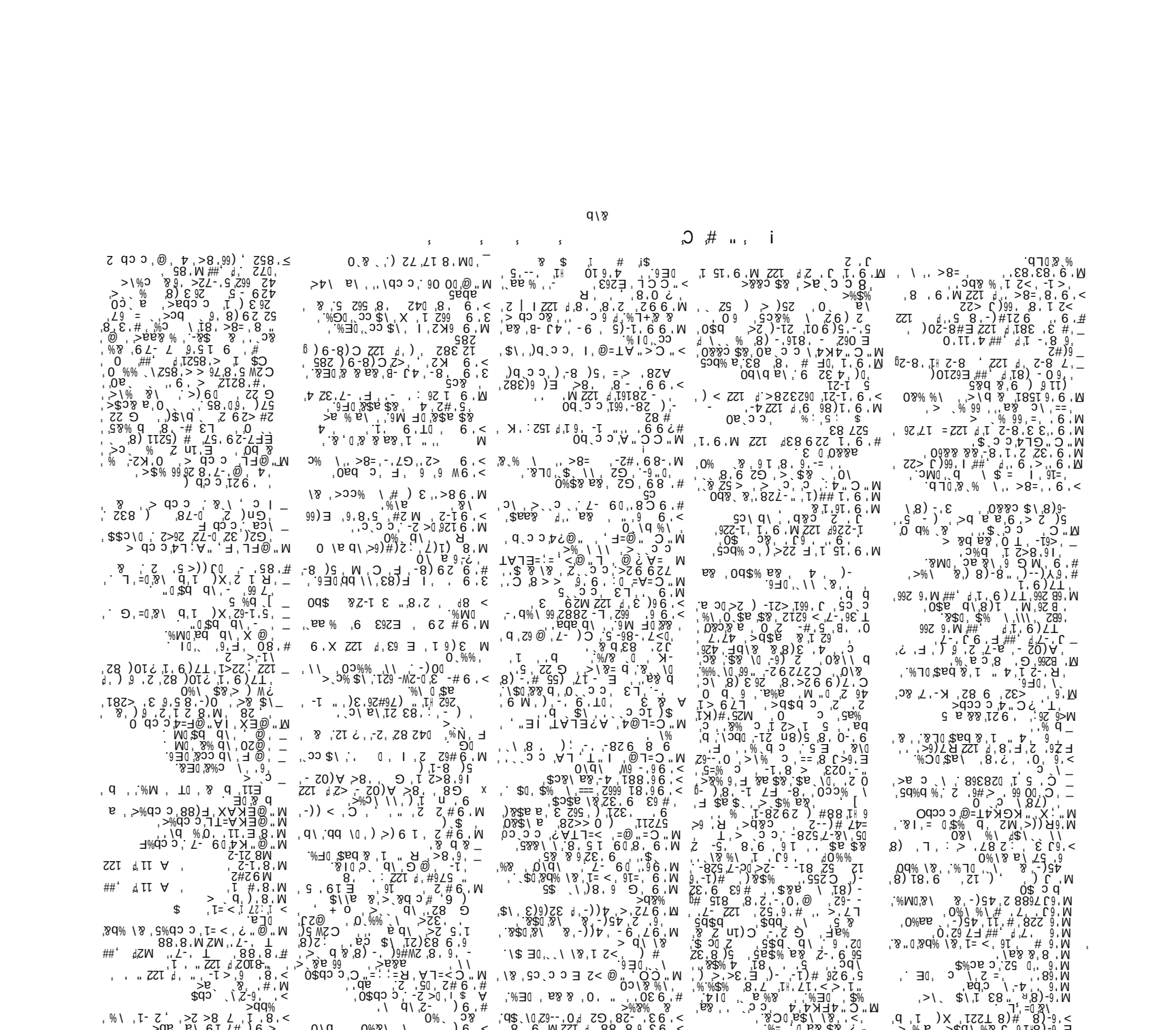

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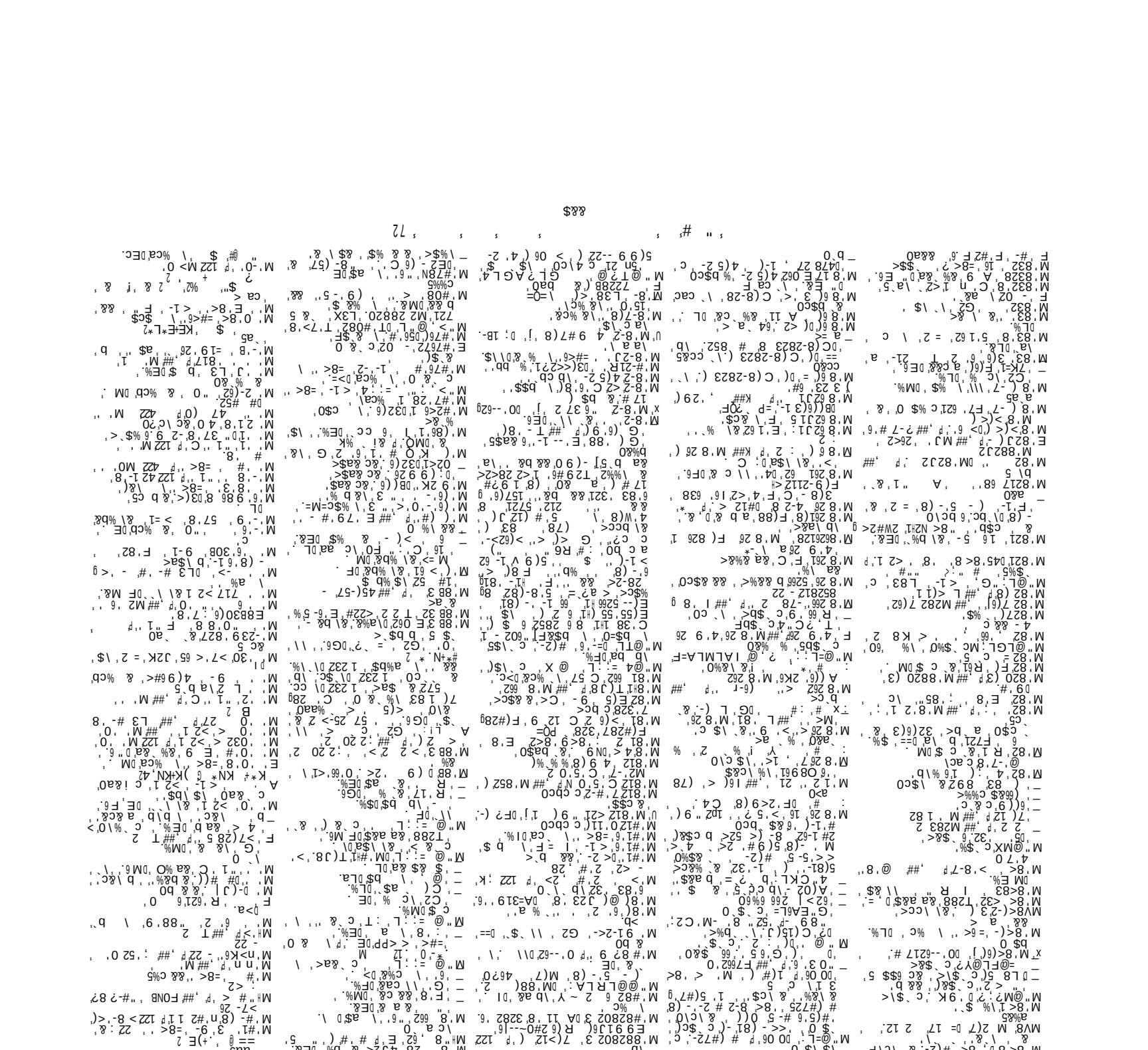

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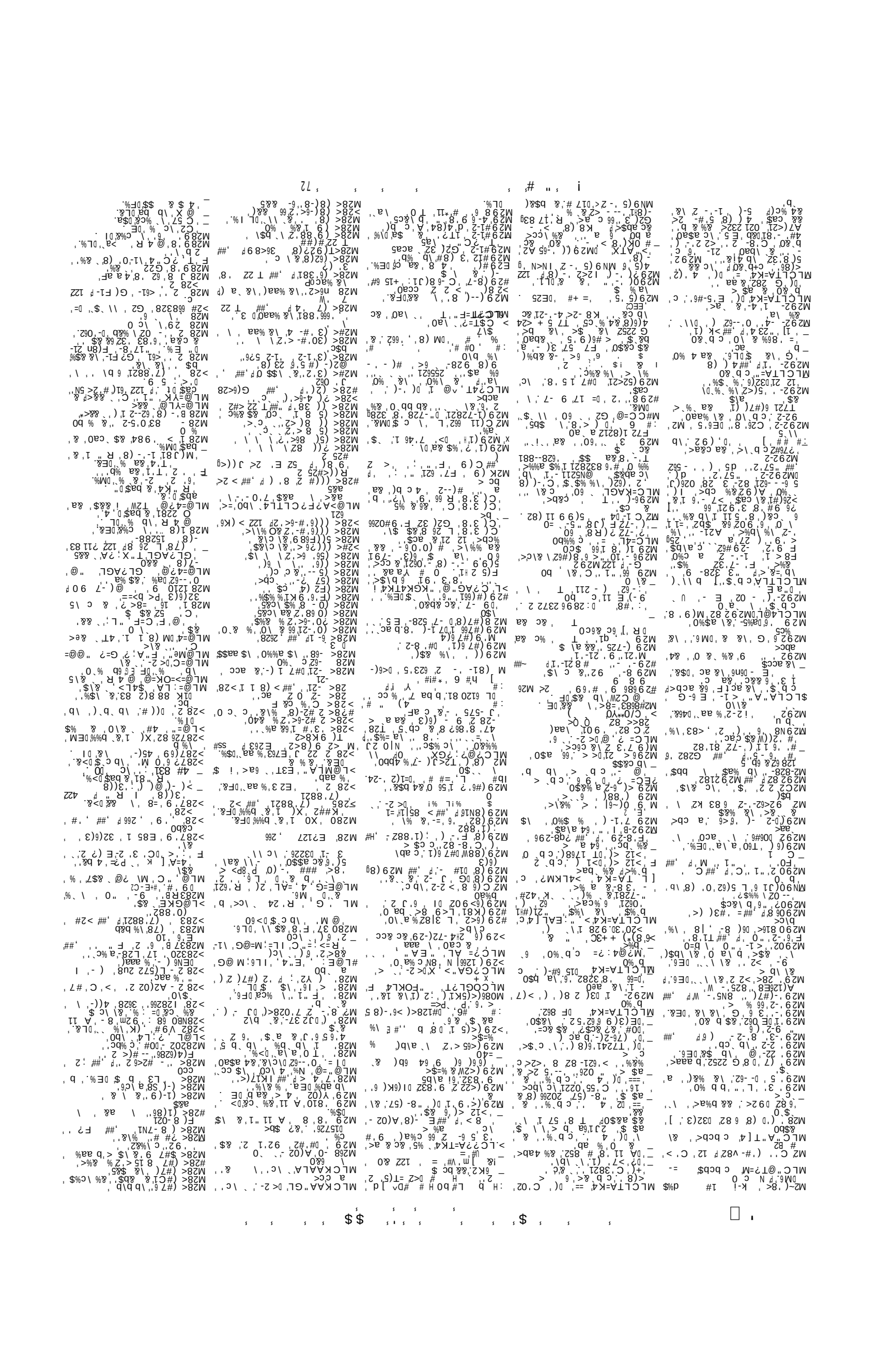

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M21#9(8< <61- ' 6 2 f' ,## MLL44"M,K G2 ` ,\$%<` ,\\ ,'O'--6Z ,DO'--6217 #.`x'M2 -157678<!' ,\$ bb\$' ,& ,0 ,\$,& ,0 ,\$,& ,0 ,\$

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E(9 ,8- ,"#1'&a & & DM ,] M(921- 5 12 52' J2-32I &'
6c `D ' \ c b &%\ E(82 -?-80I\ & ,'6 & ,' D\b$ ;' % `c'
E(9'05 1-2 =8<k' % `c' M(9 8 (8' 9-1 "8-' 5' &\' M(9 8 (8' 9-1 "3`b &&<'
,'1 T %0O E 1 8-82 4 X M9 L- A LM %bb<' M7 C L- .|AM 37 M(8' 82&- 45(- & \&'DF%.
" 11 '8& %c <'03 ;E baI'=E M(9 0 &%5 aa<
b 'D'p(8I- 5- #8'&% c$$<' M(9N 0 28 ,' 2 I $ cc' M92-- 9- @'Y`b a&'DM ,' M9 C L- A 11 b \bD0
& 8 O ,' E'6 9 (1'5I b$b(c&bO M 9 6 ,' 2J1' 8<2 <' ,' M9 - 8' ,' =- \&%'' F - ,' F'8'b c $*DG\ ' F ,' F'8'&c &< ' \ O
M92 &((9-1 "B, & M9 - -66' 9 8 5'6 ,' 8<2 ,' M9 - 8' ,' =- \&%' M9 - -6' 9 ' Ln 4' &% b& M(921- 9-1 F'8' \a$ D^ , M9 C L4M'X' E?? ' %b`D M9 (9 -K=' I6' ,' $ 0' &c' M9 - 66' L W2-2 'f ,## LW(8' 0(( L W2-2 'f ,## LW(8' M(921<' 9-1 F'8' \a$ D^ , M9 C L4M'X' E?? ' %b`D M9 (9 -K=' I6' ,' $ 0' &c' M9 - 66' L W2-2 'f ,## LW(8' _M(921<' 9-1 F'8' \a$ D^ , M9 C L4M'X' E?? ' %b`D M9 (9 -K=' I6' ,' $ 0' &c' M9 - 66' L W2-2 'f ,## LW(8' : #' ' i' ("6#& ,' & M(921- 5 D56(-7 ;' c &cc5 D^ 9 (52 ;' &% &'0' M(9 (' A 11'&\ b&b D E%;' E(90 (' 8 ' b ' 2 & \D%& ' ' \ %b ' E(90 211(8' 4 J --' &a & & 4 4B 4 4#M \% ' D"%;' D E& 4 4 4 4 9 - ,' 4 ,' 4 aa D ;& ' 4 4 ,' ,' 3# ?!' & E(90 28- ' D42 ' 8' 9(8 . M(9 2&' ,' -72' A((' 2 1'62 9' & & O' ' E" 9 (1'5I' b$b(' c&bO " E" 9 (1'5I' b$b(' M(9 2' &((9-1 "B, & & ' 1-2 \$ &c%0 '64 %%&&(' M(9 2' &((9-1 "B, & & ' E(90 &ao 'D 42 "57 &62K1 ' &ba 'f 422 "57 &62K1 ' M(9 6- '8 1 DM(9 - '8' D ' M(9 6- '8 1 DM(9 - '8' D ' M(921- 9-1 F'8' \a$ D^ , M9 C L4M'X' E?? ' %b`D M9 C L4M'X' E?? ' %b`D F ' 7 &6' 9 (1'5I' b$b(' E?CEL4 <61-' I ' \ %b F ' 7 &6' G2 'D4' ;&a $0 ' 7 &6' G2 'D4' ;&a $0 F ' 7 &6' 9 (1'5I' b$b(' M(9 2' &((9-1 "B, & & ' \$' cc' DG ;' #' 62 92 BH(&& 8 5'6 ' 2--2 1' bb&' M(9 2' &((9-1 "B, & & ' \ 5 ' #2 b ' ab'' & ab5 ' ##2 b ' ab'' & ab5 ' M(9 2 1 ' E50-2' I ' \$' M(9 2 1 ' E50-2' I ' \$' M(9 8 5'8' A2# 06 5' R ='f M(9 8 5'8' A2# 06 5' R ='f M(9 8 5'8(55 b F M(9 8 5'8(55 b F M(9 8 5'8 82112I ' -$%5' M(9 8 5'8 82112I ' -$%5' 4 4 4 ,' 4 ,' 4 aa D ;& ' 4 4 4 ,' ,' 3# ?!' & E(90 211(8' 4 J --' &a & & DE&' D%& (' A 11'&\ b&b D E%;' E(90 (' 8 ' b ' 2 & \D%& ' ' \ %b ' M(921- 5 D56(-7 ;' c &cc5 D^ 9 (52 ;' &% &'0' M(9 (' A 11'&\ b&b D E%;' M(9 2' &((9-1 "B, & & ' E(90 28- ' D42 ' 8' 9(8 . M(9 2' &((9-1 "B, & & ' M 9 6 ,' 2J1' 8<2 <' ,' M9 - 8' ,' =- \&%'' M(9 - -6' 9 ' Ln 4' &% b& M(921- 9-1 F'8' \a$ D^ , M9 C L4M'X' E?? ' %b`D M9 (9 -K=' I6' ,' $ 0' &c' M9 - 66' L W2-2 'f ,## LW(8' M(921<' 9-1 F'8' \a$ D^ , M9 C L4M'X' E?? ' %b`D M9 (9 -K=' I6' ,' $ 0' &c' M9 - 66' L W2-2 'f ,## LW(8' _M(921<' 9-1 F'8' \a$ D^ , M9 C L4M'X' E?? ' %b`D M9 (9 -K=' I6' ,' $ 0' &c' M9 - 66' L W2-2 'f ,## LW(8' : #' ' i' ("6#& ,' & M(921- 5 D56(-7 ;' c &cc5 D^ 9 (52 ;' &% &'0' M(9 (' A 11'&\ b&b D E%;' E(90 (' 8 ' b ' 2 & \D%& ' ' \ %b ' M(921- 5 D56(-7 ;' c &cc5 D^ 9 (52 ;' &% &'0' M(9 (' A 11'&\ b&b D E%;' E(90 211(8' 4 J --' &a & & 4 4B 4 4#M \% ' D"%;' D E& 4 4 4 4 9 - ,' 4 ,' 4 aa D ;& ' 4 4 ,' ,' 3# ?!' & E(90 28- ' D42 ' 8' 9(8 . M(9 2' &((9-1 "B, & & ' M 9 6 ,' 2J1' 8<2 <' ,' M9 - 8' ,' =- \&%'' M(9 - -6' 9 ' Ln 4' &% b& M(921- 9-1 F'8' \a$ D^ , M9 C L4M'X' E?? ' %b`D M9 (9 -K=' I6' ,' $ 0' &c' M9 - 66' L W2-2 'f ,## LW(8' _M(921<' 9-1 F'8' \a$ D^ , M9 C L4M'X' E?? ' %b`D M9 (9 -K=' I6' ,' $ 0' &c' M9 - 66' L W2-2 'f ,## LW(8' M(921<' 9-1 F'8' \a$ D^ , M9 C L4M'X' E?? ' %b`D M9 (9 -K=' I6' ,' $ 0' &c' M9 - 66' L W2-2 'f ,## LW(8' : #' ' i' ("6#& ,' & M(921- 5 D56(-7 ;' c &cc5 D^ 9 (52 ;' &% &'0' M(9 (' A 11'&\ b&b D E%;' E(90 (' 8 ' b ' 2 & \D%& ' ' \ %b ' M(921- 5 D56(-7 ;' c &cc5 D^ 9 (52 ;' &% &'0' M(9 (' A 11'&\ b&b D E%;' E(90 211(8' 4 J --' &a & & 4 4B 4 4#M \% ' D"%;' D E& 4 4 4 4 9 - ,' 4 ,' 4 aa D ;& ' 4 4 ,' ,' 3# ?!' & E(90 28- ' D42 ' 8' 9(8 . M(9 2' &((9-1 "B, & & ' M 9 6 ,' 2J1' 8<2 <' ,' M9 - 8' ,' =- \&%'' M(9 - -6' 9 ' Ln 4' &% b& M(921- 9-1 F'8' \a$ D^ , M9 C L4M'X' E?? ' %b`D M9 (9 -K=' I6' ,' $ 0' &c' M9 - 66' L W2-2 'f ,## LW(8' _

M(882 ' G2(3 L'#7'2 ' & ' $$O
M(8-(7 9 - T O a- \a 'L%. \ F(11'5 1'T2 -('-02 '
M(8'(> =1'&\ %b&'DM ' T O
M(#8N ' F6. ' \ $ cc'+E . M(8128 ' ! \$ CC'D> ' ;'
M(8 '--'4('b % '=' Q&' M(0' 22#2 ' &$ \ < ' DF&' M((8 5'#(' 2 \ c ' DF&' M((F(1'& c $'DI %.'
M((6'@ 4 R'b %'DM&.' M(('f&@ 4 R'\b %'DM&.'
M((6' 2 ' = \ c ' DE . M((5'#2 ' \ c $<
M((5'#2 ' \ c ' DE . M((5'#2 ' \ c ' DE .
M(8 ' & cb ' & $<
M(8 ' F 0 . E6. M((5'#2 ' \ c ' DE%.
M(8 ' R 1'& c

M(-'6 &%'
M(062'172 26'\b ^c&'
M(062'R2K1"_ &'DF%'
M(062 B2 (D (-2.&% cC15'
M(06 83'DO <32'.%$'
M(062 0'-'D283 822 .&c 'ab<'
M(062'0 ' @ 4 R 'aa &c'
D$%'
_ '16'F7 8'&a \'$
_ '9-'.'\ c $5
_ '9)-'T2W'&a'ab$'D\%'.
_ '0$.'5 &'&'DE\
_ '\%'aO' b % <
_ '72'<2<' ,'&&& '&$'
_ '81'852' ,## C 6- #62 8'
_ '6'9 2 #(1-'D#'#2 '&$ c% '
_ '9'57\c a'b'
_ '\C<' 6- 8'3 (#'D32(6 &\'
_ '#6'-28'# 211&& &<
_ '(6 &$&$'
_ '#6''DO'120'66.'% 'D0
_ '# 8-'D32(9 'b c%\0
_ 'n 8-#(9'92 'c \<
M(062'D2625'9'57 82.'b\ca<'
M(062'2-1 (' (&% ab'
_ '22< 6 -7# 252'\ b a'
_ '5 (1-5'6 \ a<
_ '5 83'1-(5 1'Z-%% <D 3.
_ '92 5'8' (9<&'%a <'
_ '1#ZN- -72(&&'a$\' % '
_ '0'11((8' 122F(6 - '3(--?
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DM%.
M(52--2'T2W'&a ab$D@'
M(572'a >= =''&a'$&0'
M(<'-<2' ;'3 N2'L 82I-'C'
M(<(8'O-9 N8J'66 \
M(N I \$ cc'DM
M(3'6'9-3'C'11\c ' &DFb.'
M(9 1-'G'\& &'DF&.'
M(3'6'0'(8
M(7 8'9'C'11\c ' &DFb.'
M(3'6'1>'\\\'DF7 5'3(;'a
M(3'6'1>288'8-'# >28'
M(6'4'2'<'5'#2'=<'(C'b'
M(3'4'8-'# (5211'c \$a0'
M(36'1'\b'F7 5'3(;'a
M(6'8<'61
M(3 K1' ,## M(36'1'
1# 52
M(6'4'2'<'5'#2'=<'(C'
M(3'4'8-'# (5211'c \$a0'
M(36'1'\b'F7 5'3(;'a
M(3'6'1>288'8-'# >28'
M(6'4'2'<'5'#2'=<'(C'b'
M(3'4'8-'# (5211'c \$a0'
M(36'1'\b'F7 5'3(;'a
M(3'6'1>'\\\'DF

5

M 92,G,\8 ,$ DF8.,8$, a'
b%$<' 0,--62' D&&8A E5 .'a'
b < ,& %&\' \ (9 ,@ (\b ,$ '
M 92&(<(8' #6 (1- 1' \ '
M 9 (5 ,G61\b &$(1\& D1&.'
a \0 D".6. ' 9 - ' @ (\b ,$ '
M 9 28-,F,8'&$ \\ D".6.
M 9 (5 ,G61\b &$(1\& D1&.'
\& \%%0 ' ' ' ' ' ' ' '
MXC? :L'D'9 6 .'.c. <
M 9 (8<'T'4'\ ..' c. <
M 9 #78'"D6328<'66 b\b'
M 9 &5'6 32(6(3 'f ,## G2(g
M 1\ -.= \ C%&'DL&.
MX4"AT 45(- ,'<'&'
\ DL&. 32(6(3'\$
%&bc' ' ' ' ' ' ' '
M 1"K621D9 -7,&c &b&K'
M 12#9 52'D%K2<'&'&b\O'
M 12(#7<'2 &%<
M 12-'-1-2&4 \\%5
M 1F -8'.'&.&.<
M 1<2 .'&.%$a
M 1<2 .'f'22G(--(84-'82
M 1 5 <'2&%$a<'
6.'.'%.'6'C'7'?'O22f'
%2'\ C%a<' 292< 21'\& %& &$
M 12-'7.R'&?'i &'i'E * '
\$ &&O
M 12 -?#M2'='2 b a c7'\a'
ab 5f' O'--62' D\%\'.' \
cC&O' O'--62' D\1\'\' &c'
M 1 \' O'--62' D\1\'\' &c'
M 19?8 9 (72'-\& ca' ' \&'
caaO' 292< 21'\& %& &$
M 1-2 (3282[1'\' &\'
M 19(' #7(T!H\ \a)' '
M 1(8'.I R'&a 'bO' ' \b$<'
M 9 2&(<(8' #6 (1- 1' \ '
M 9 (5 ,G61\b &$(1\& D1&.'
M 21 ' ' 9 - ' @ (' \b ,$ '
D".6. ' ' ' ' ' ' ' '
M 92,G,\8 ,$ DF8.,8$, a'
b%$<' 0,--62' D&&8A E5 .'a'
b < ,& %&\' \ (9 ,@ (\b ,$ '
M 9 2&(<(8' #6 (1- 1' \ '
M 9 (5 ,G61\b &$(1\& D1&.'
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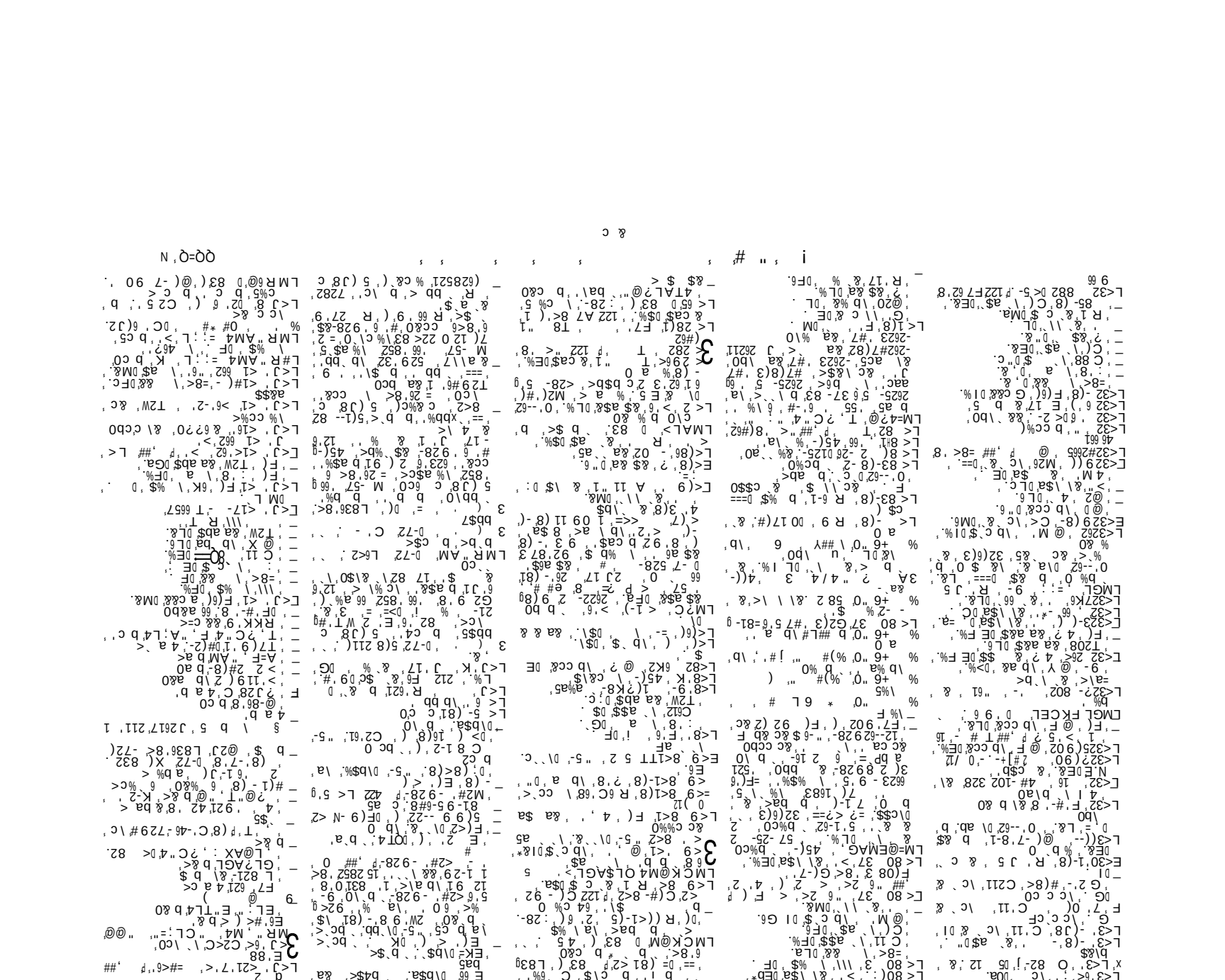

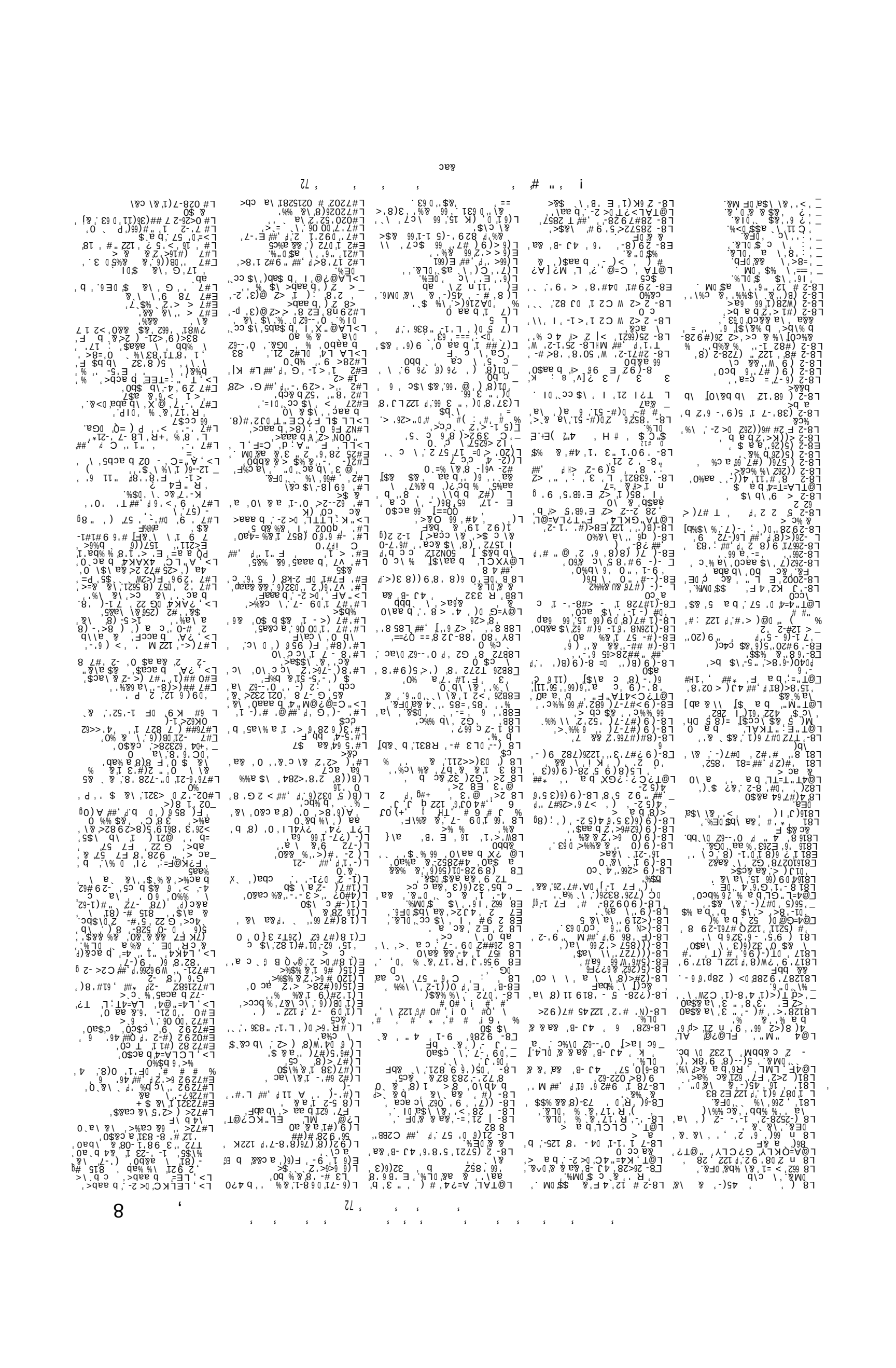

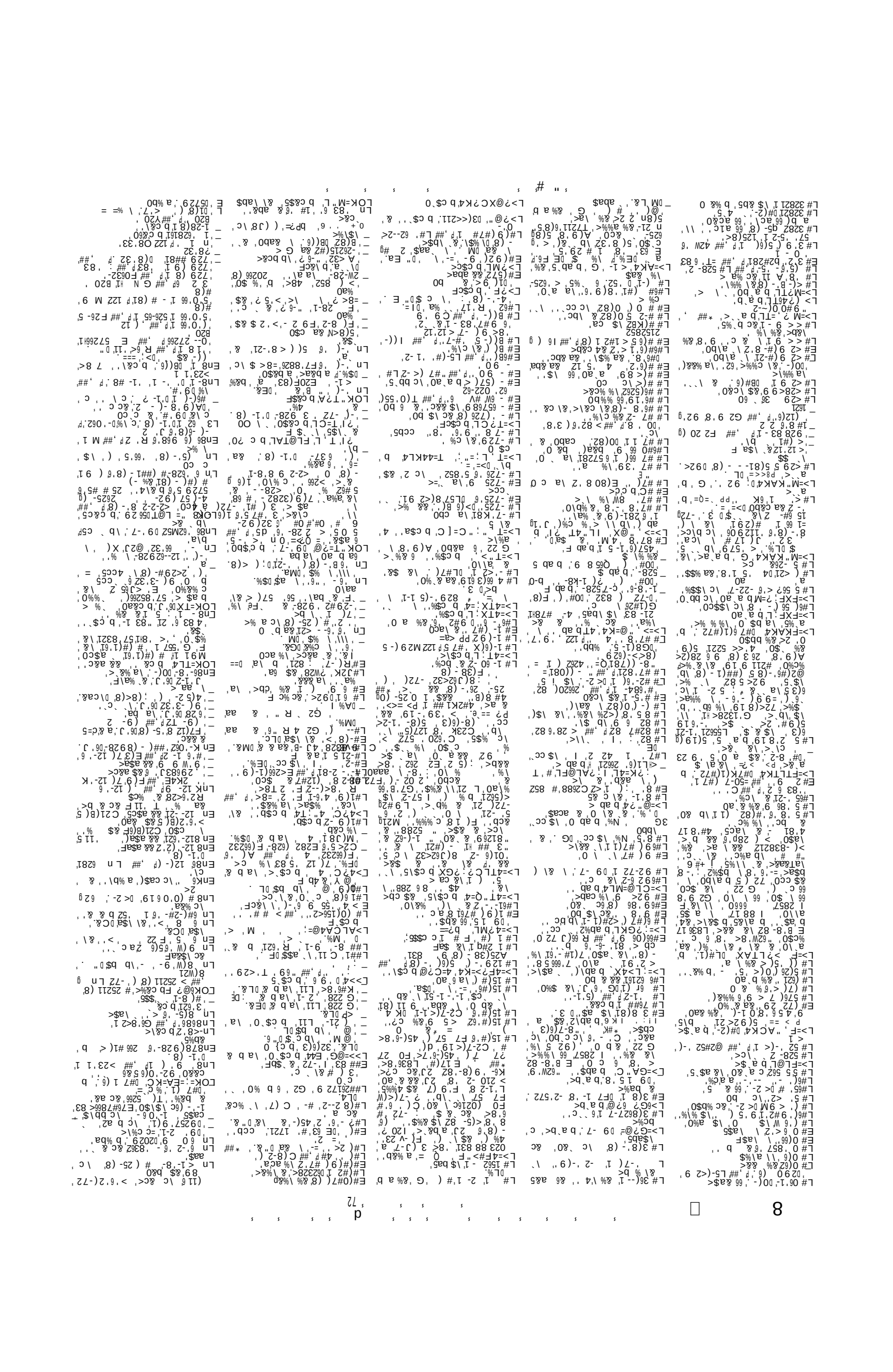

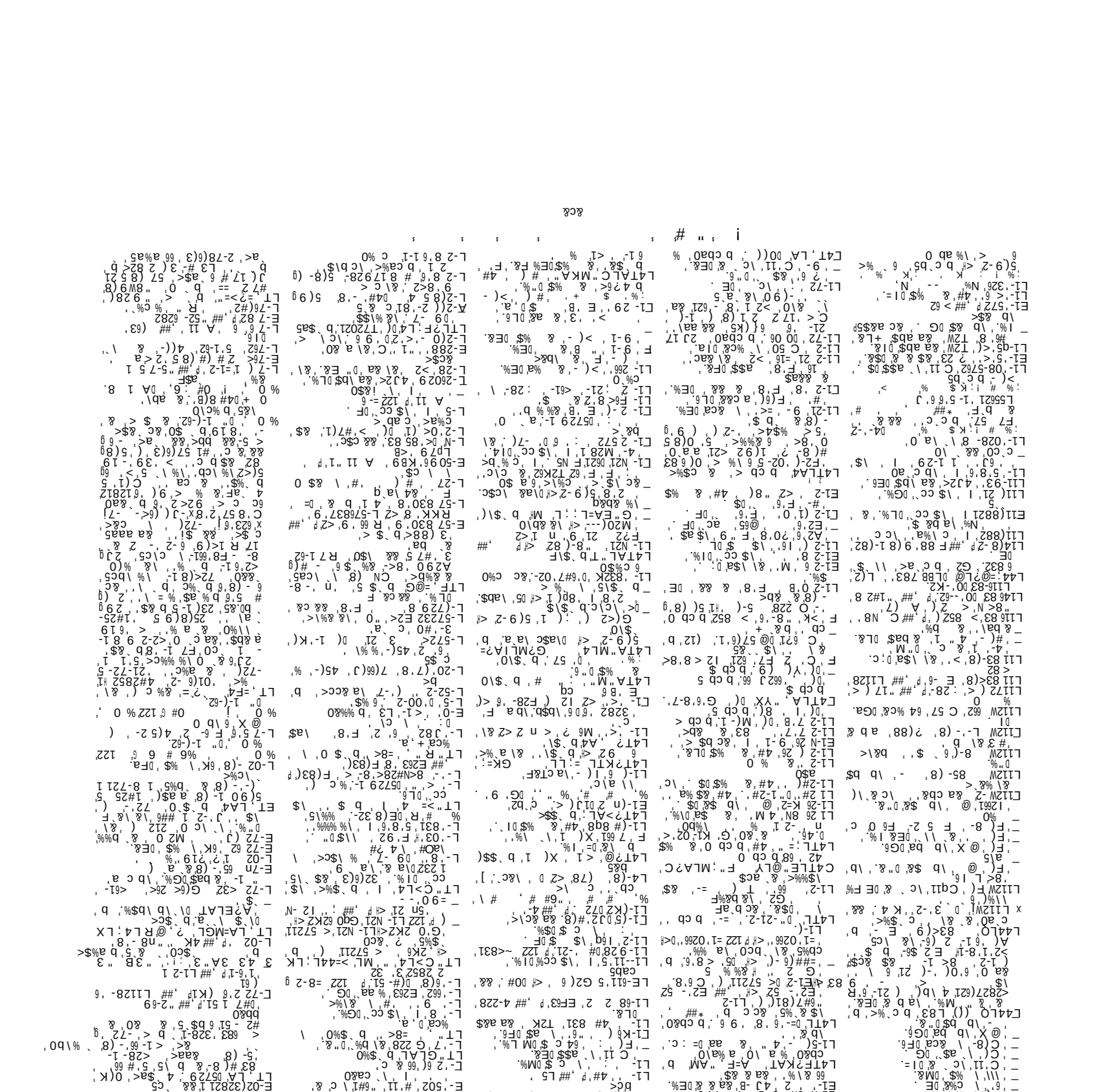

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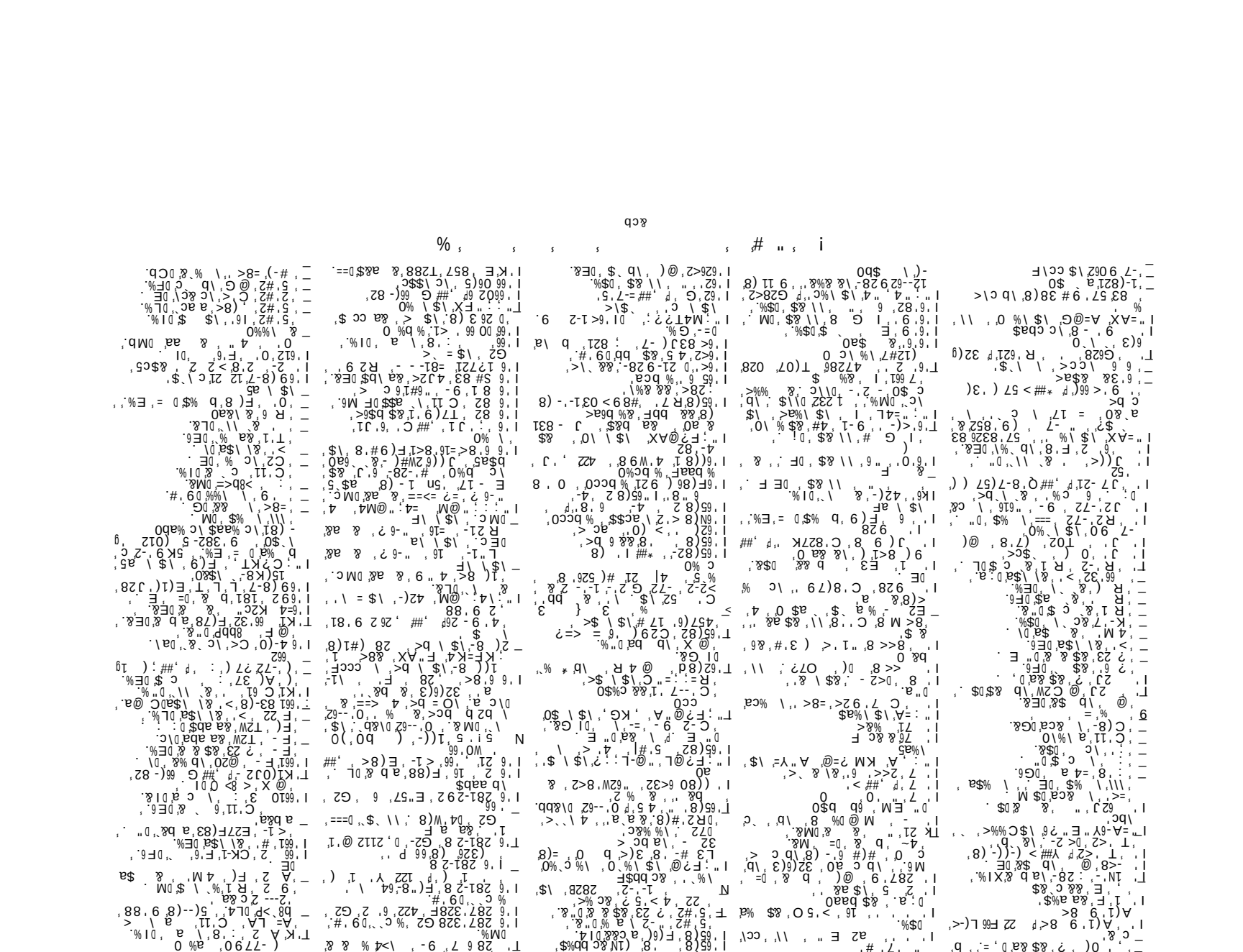

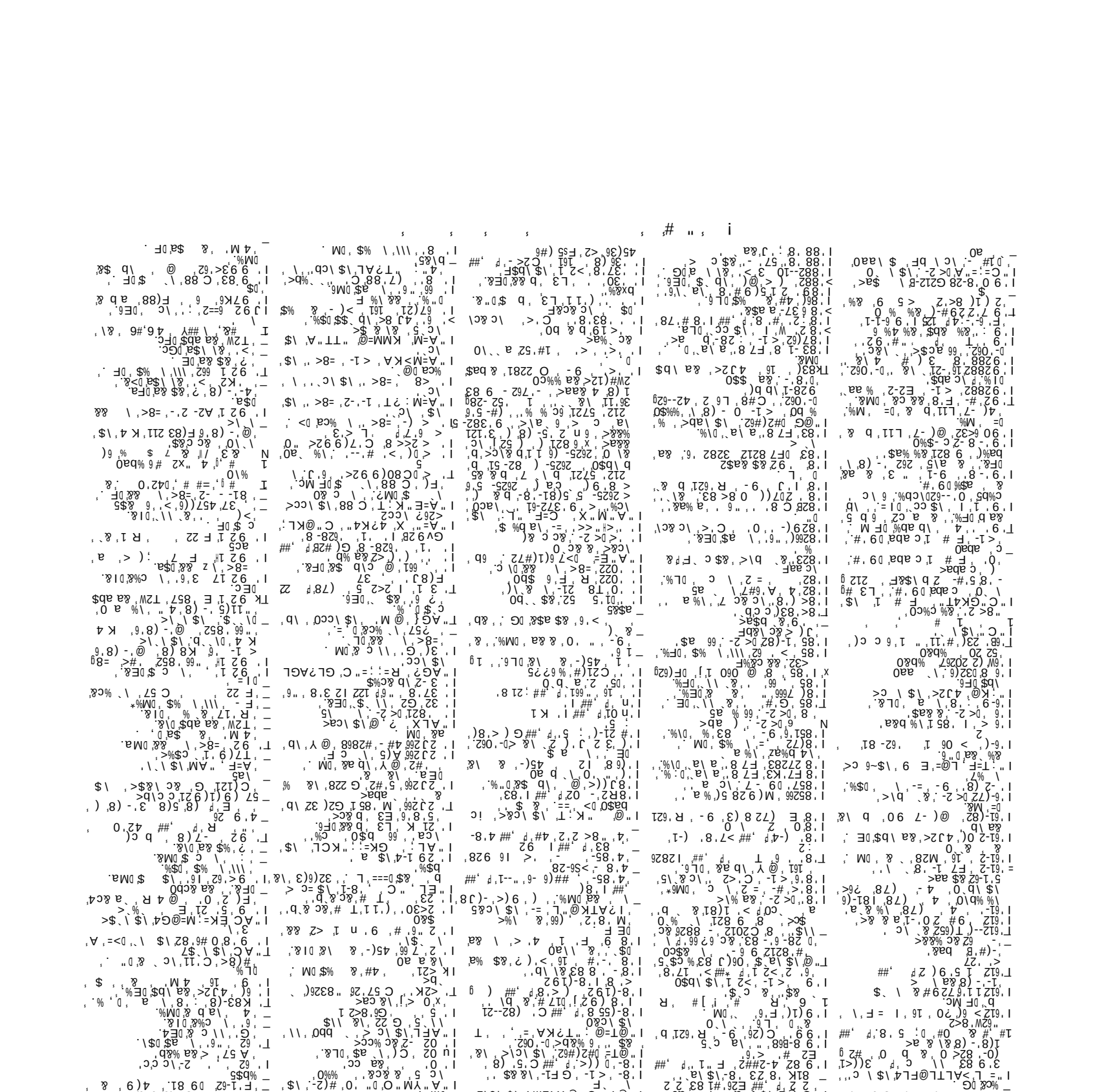

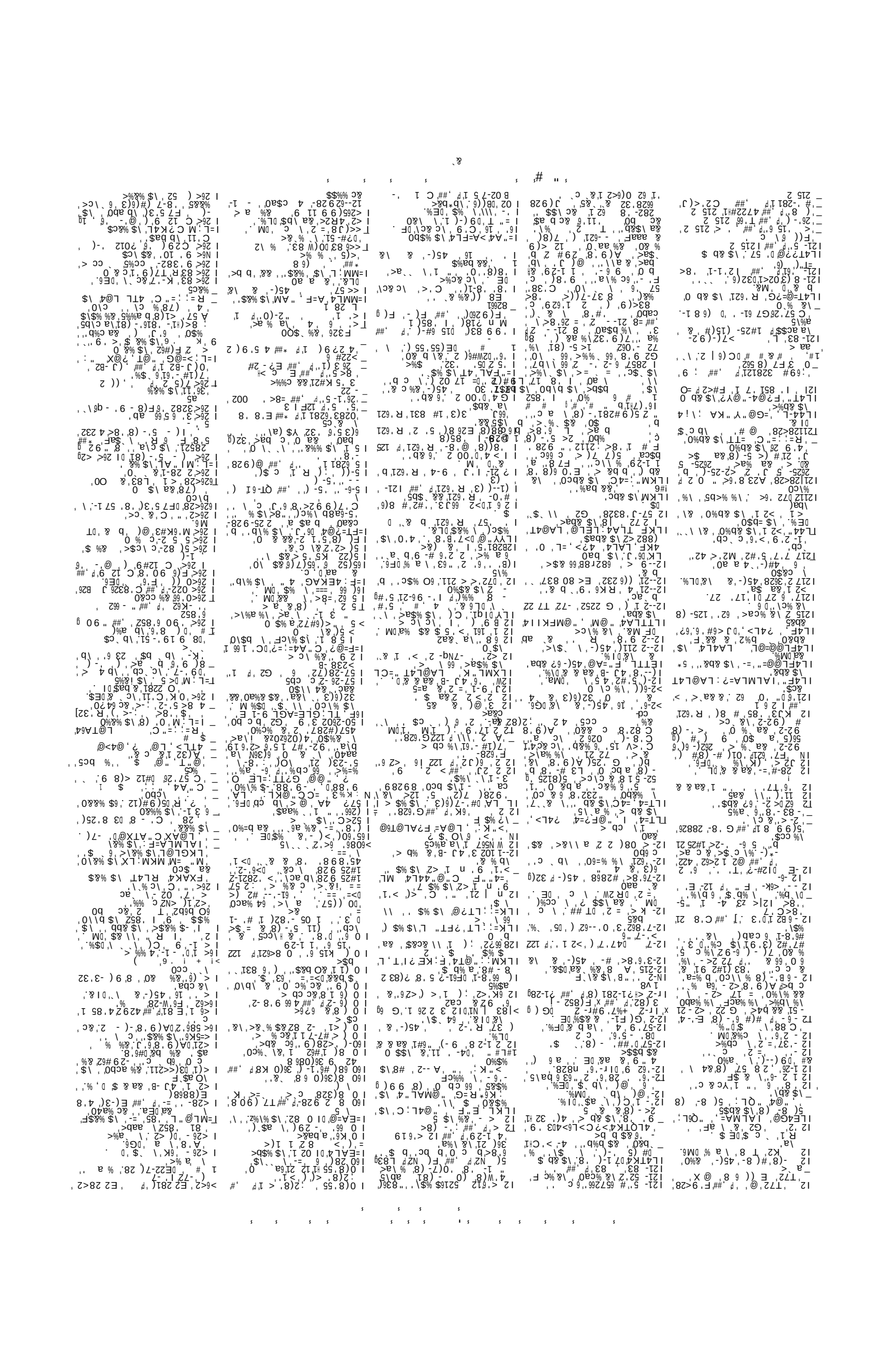

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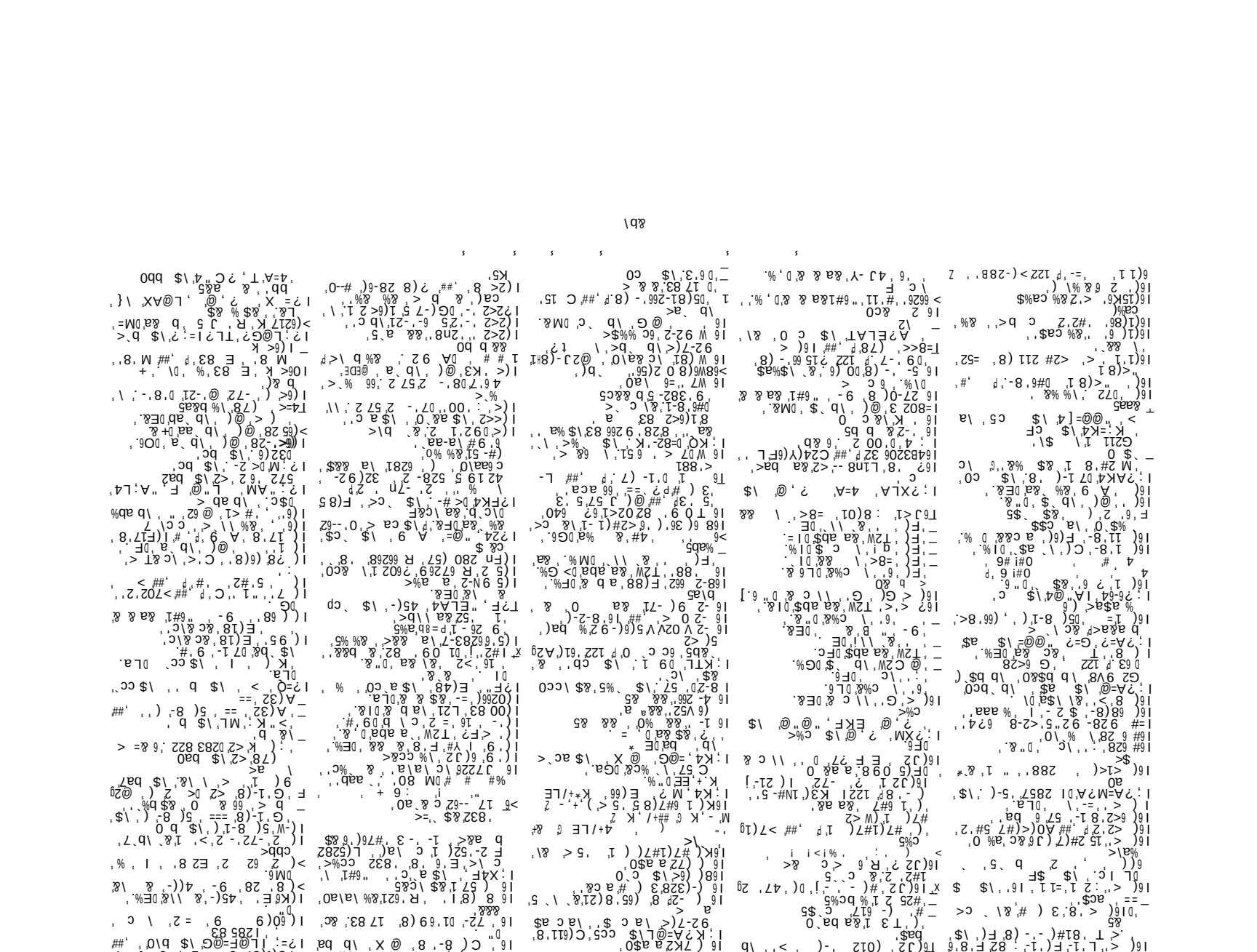

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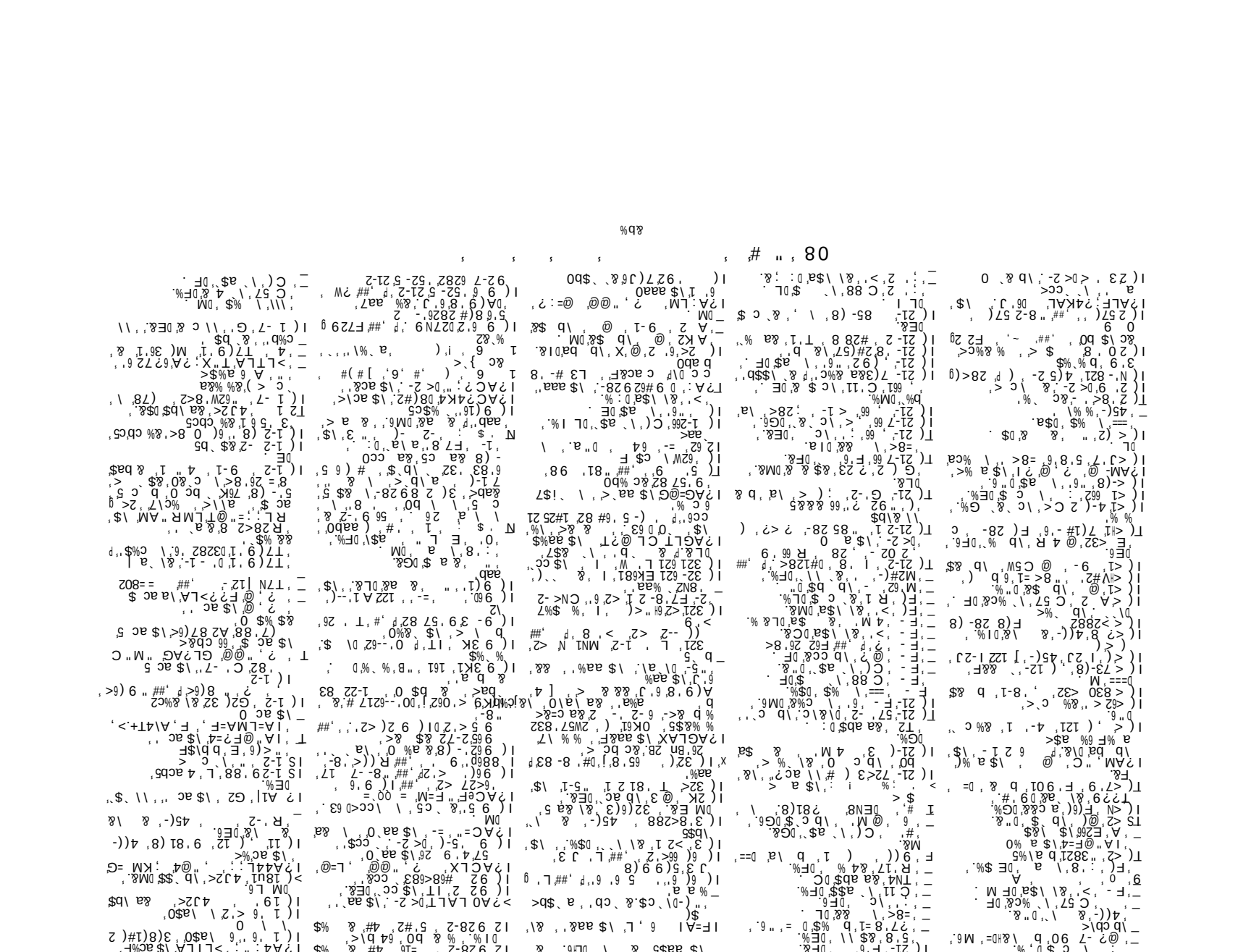

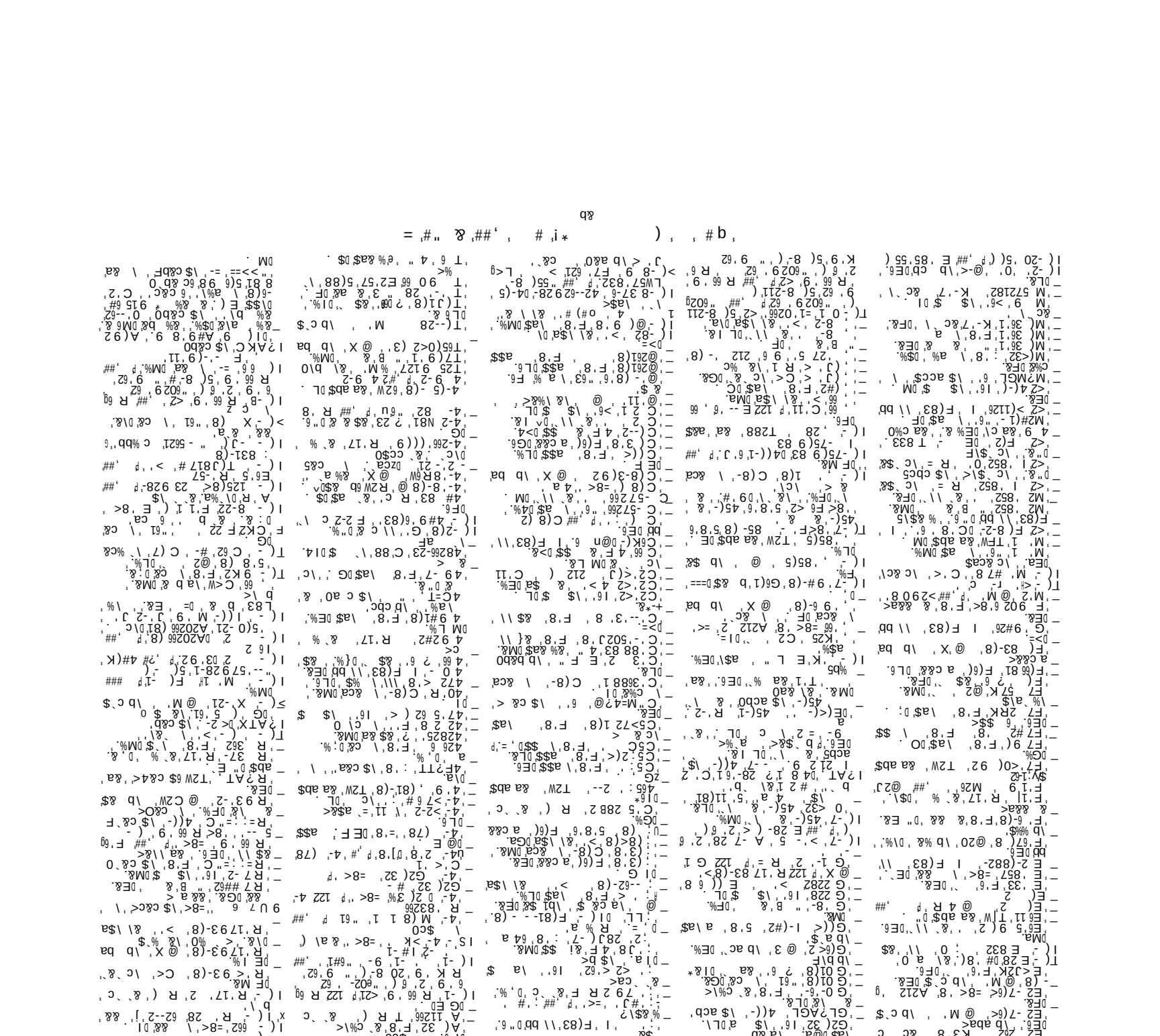

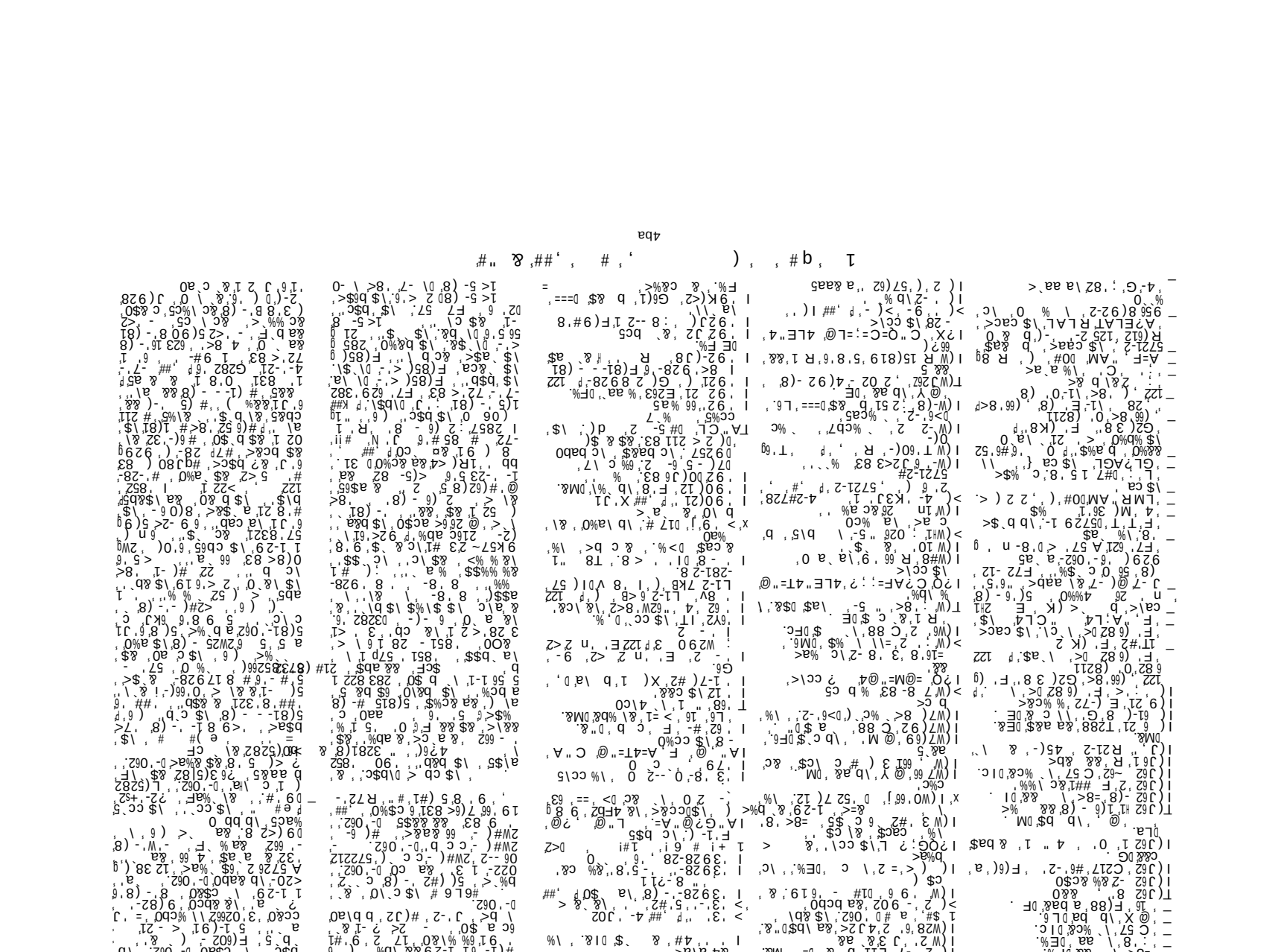

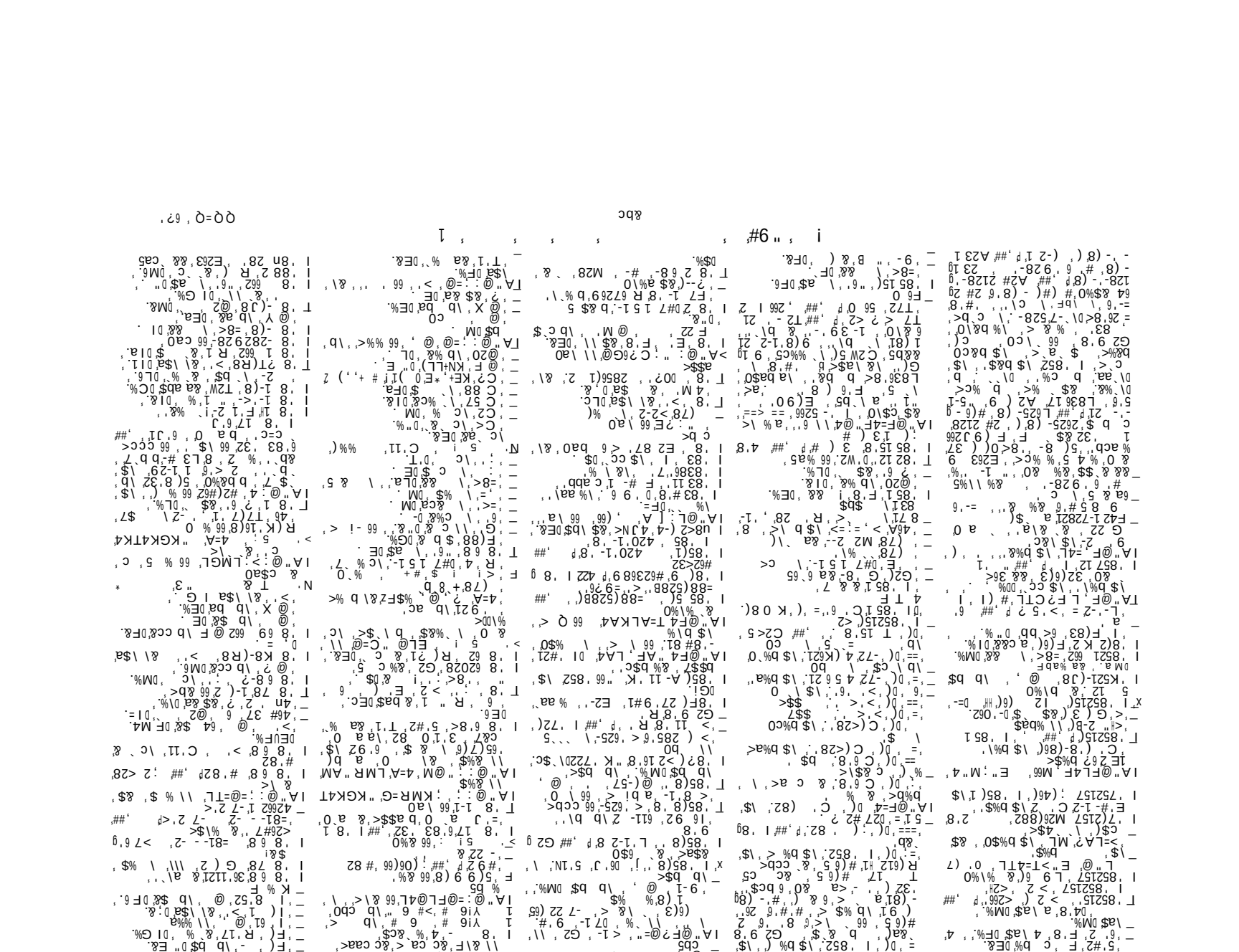

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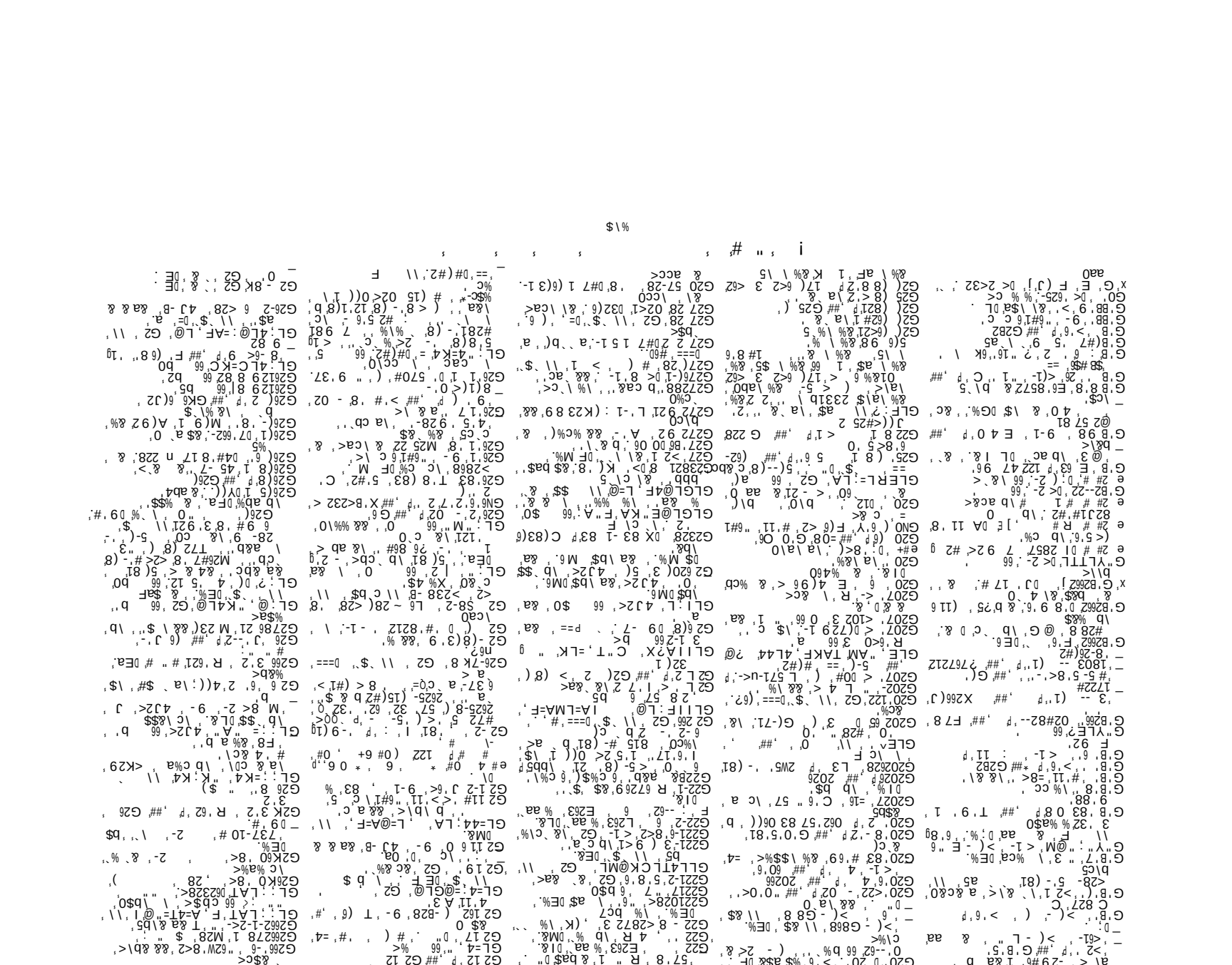

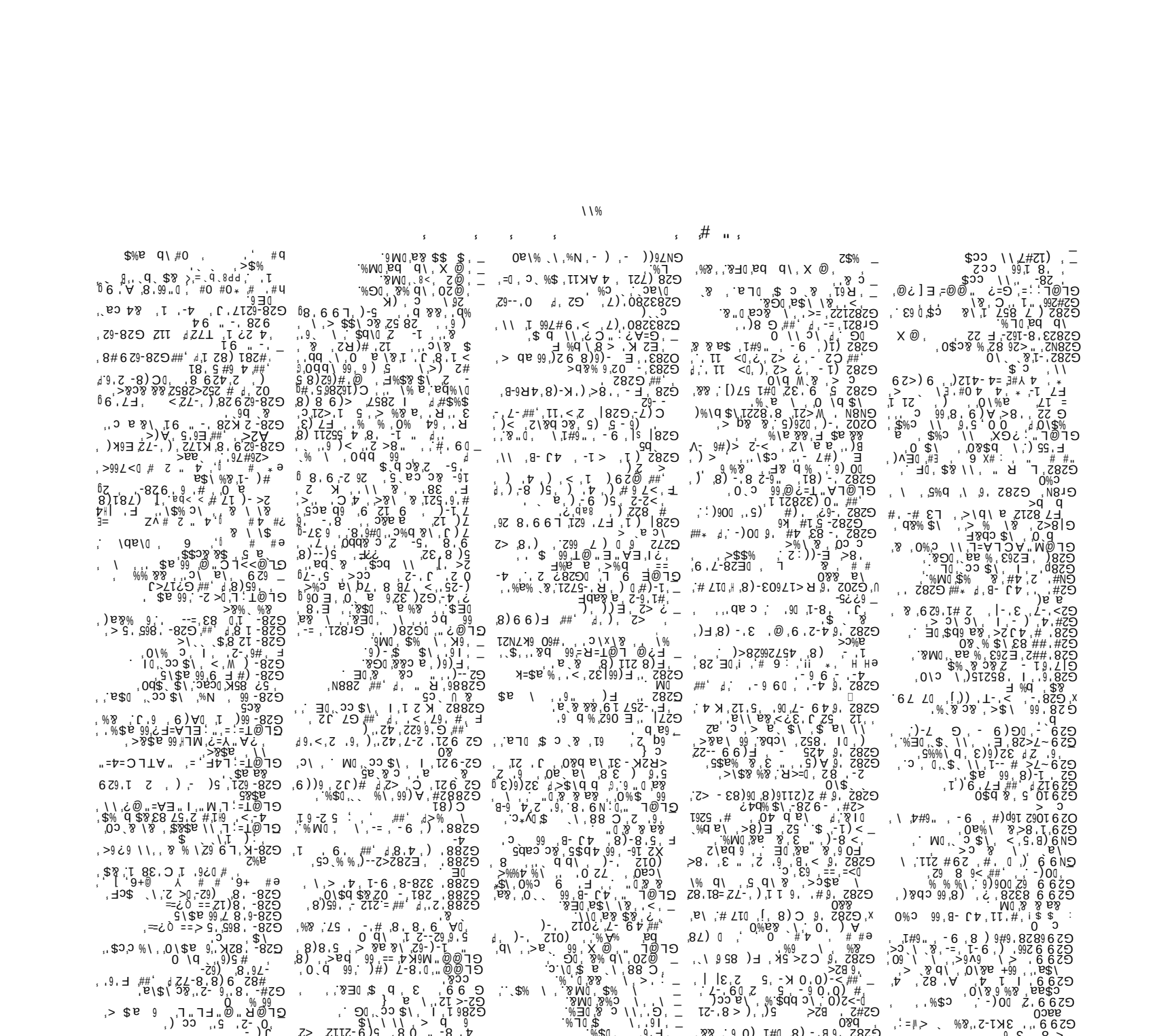

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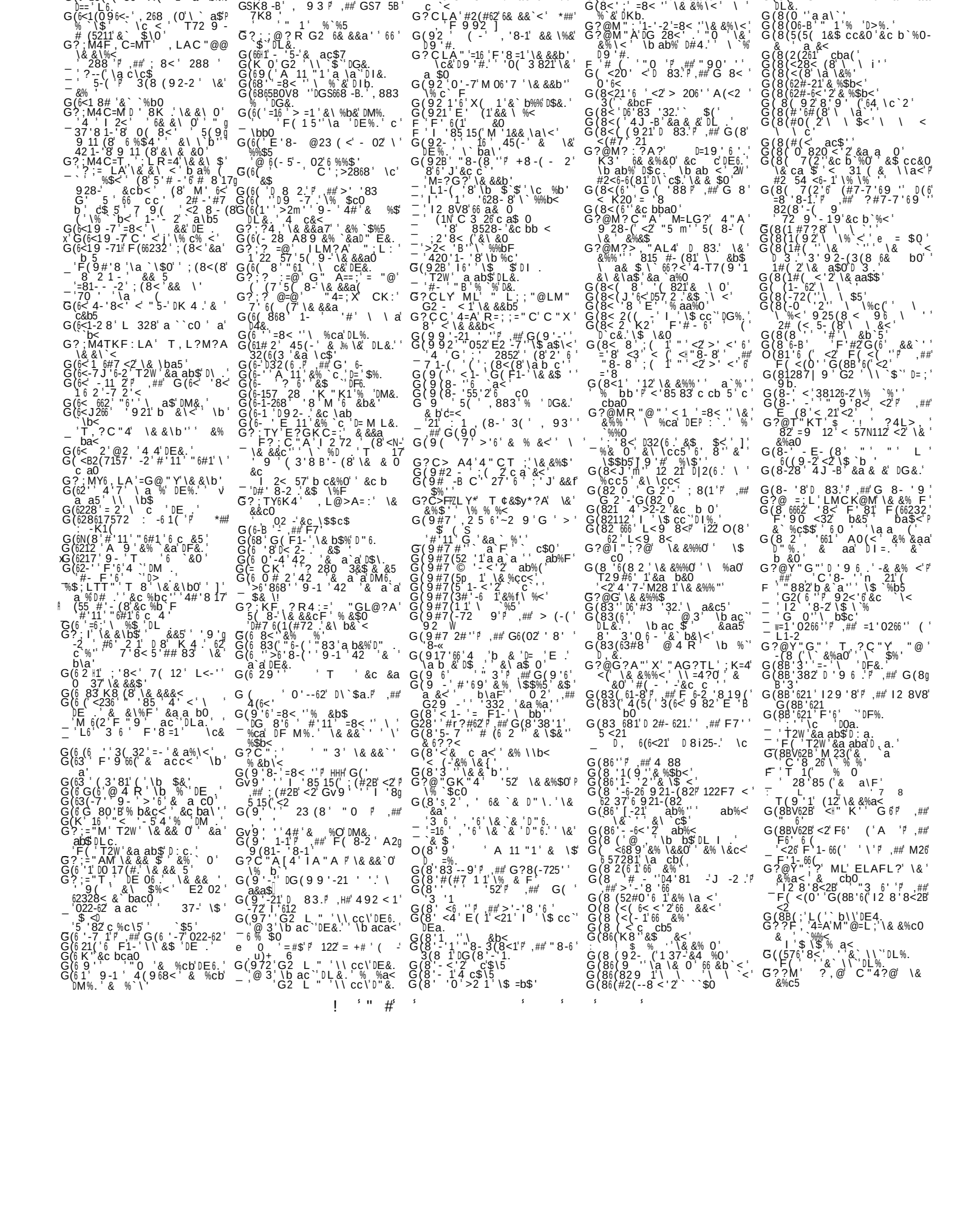

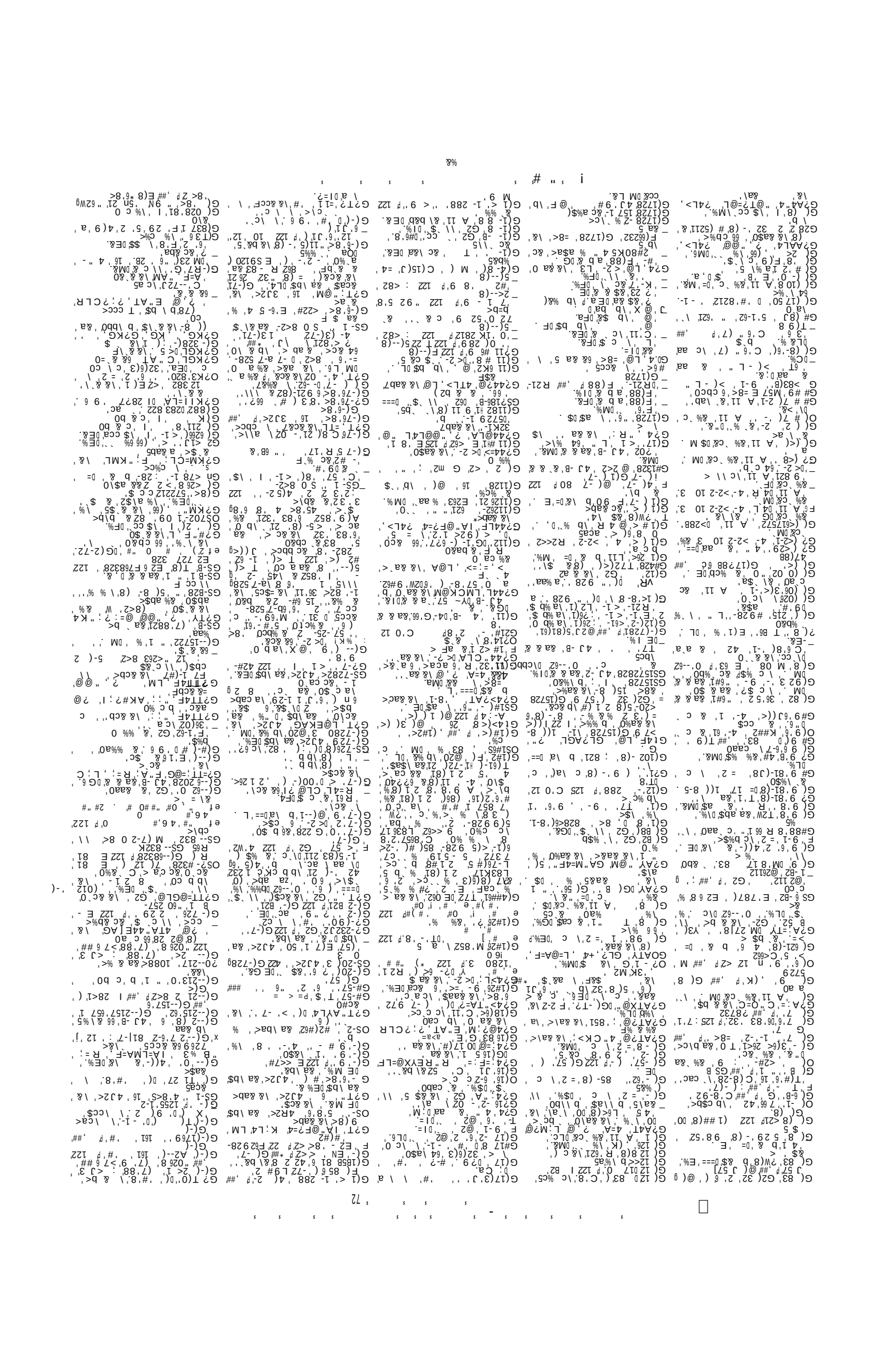

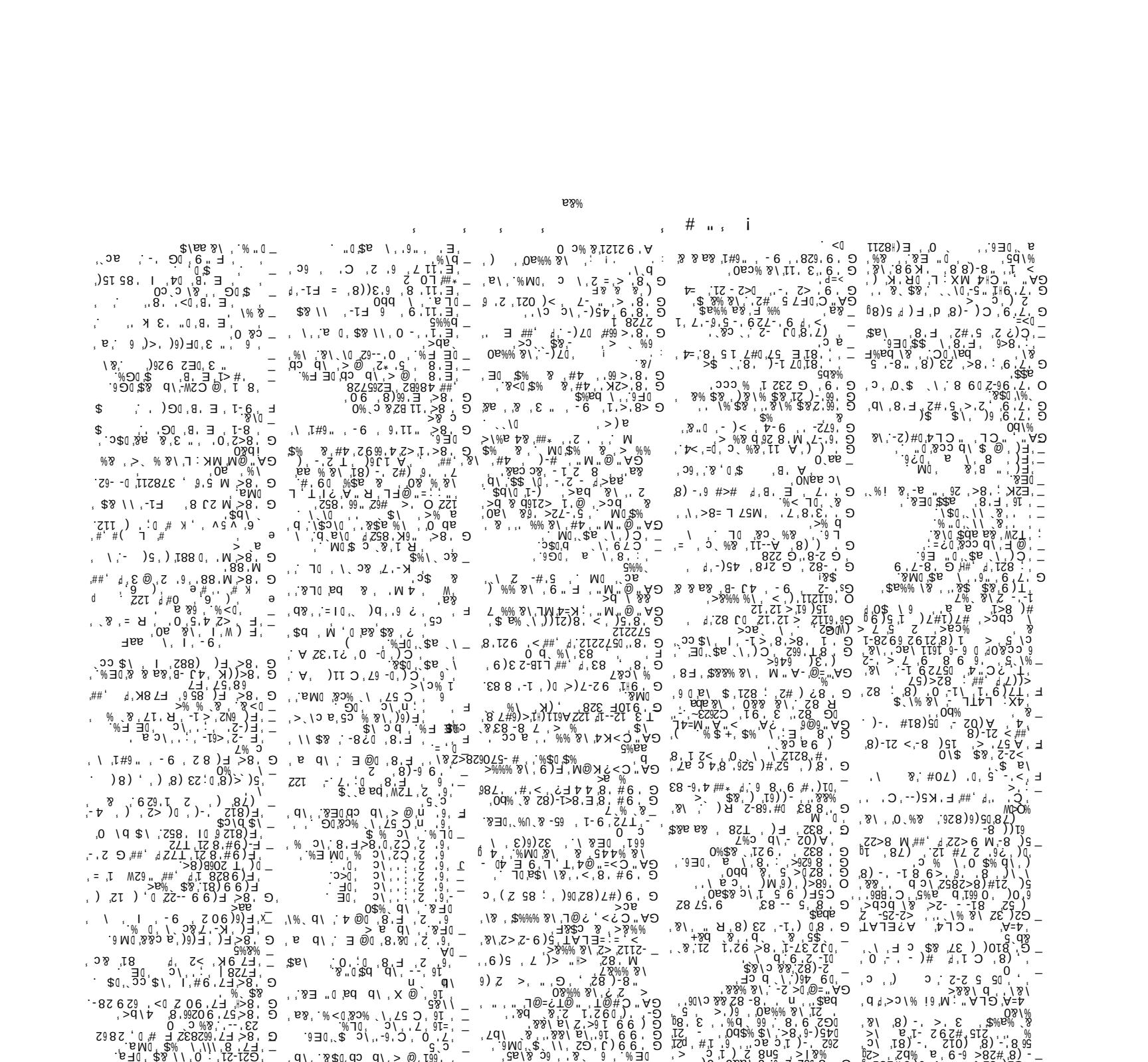

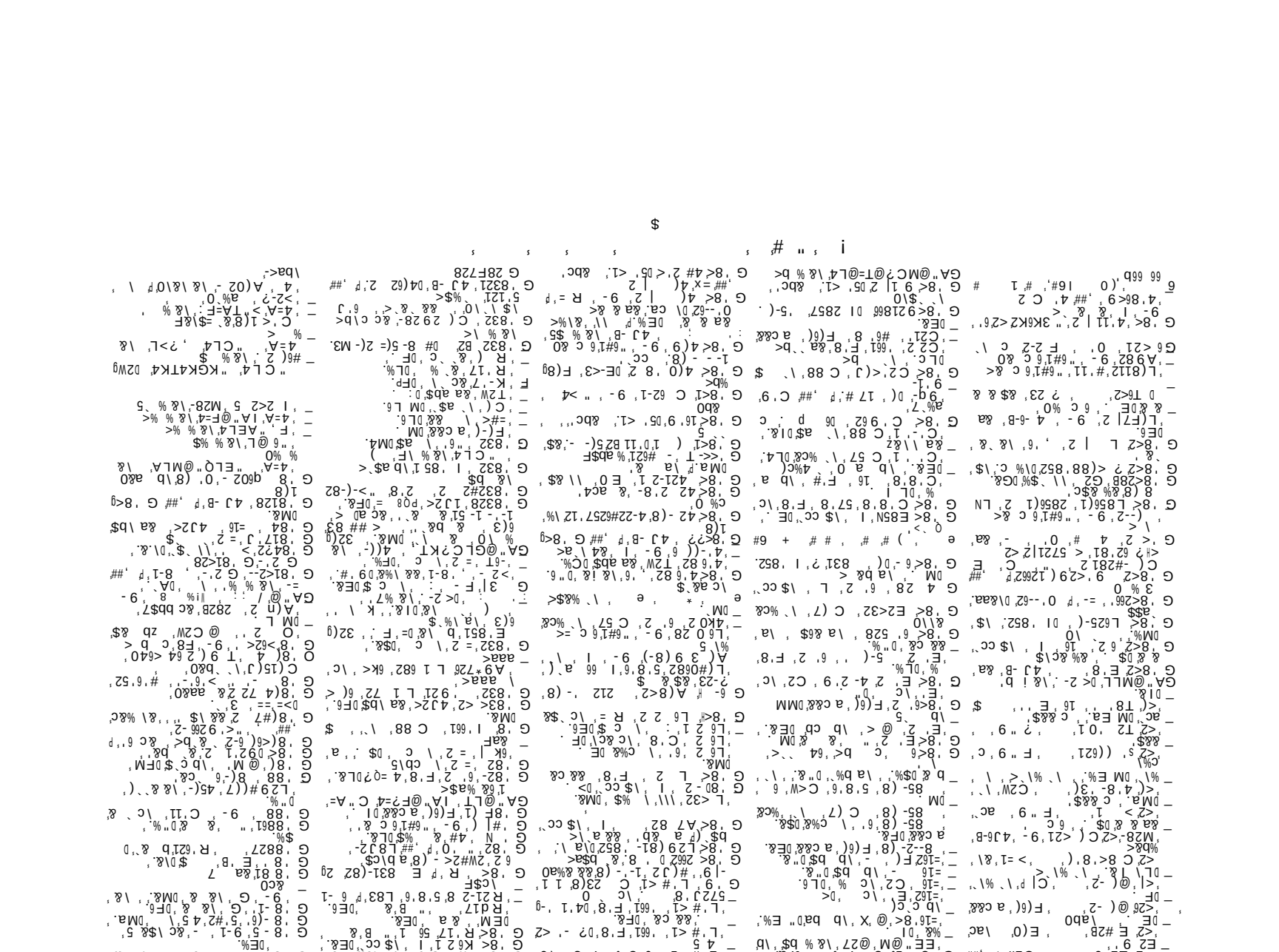

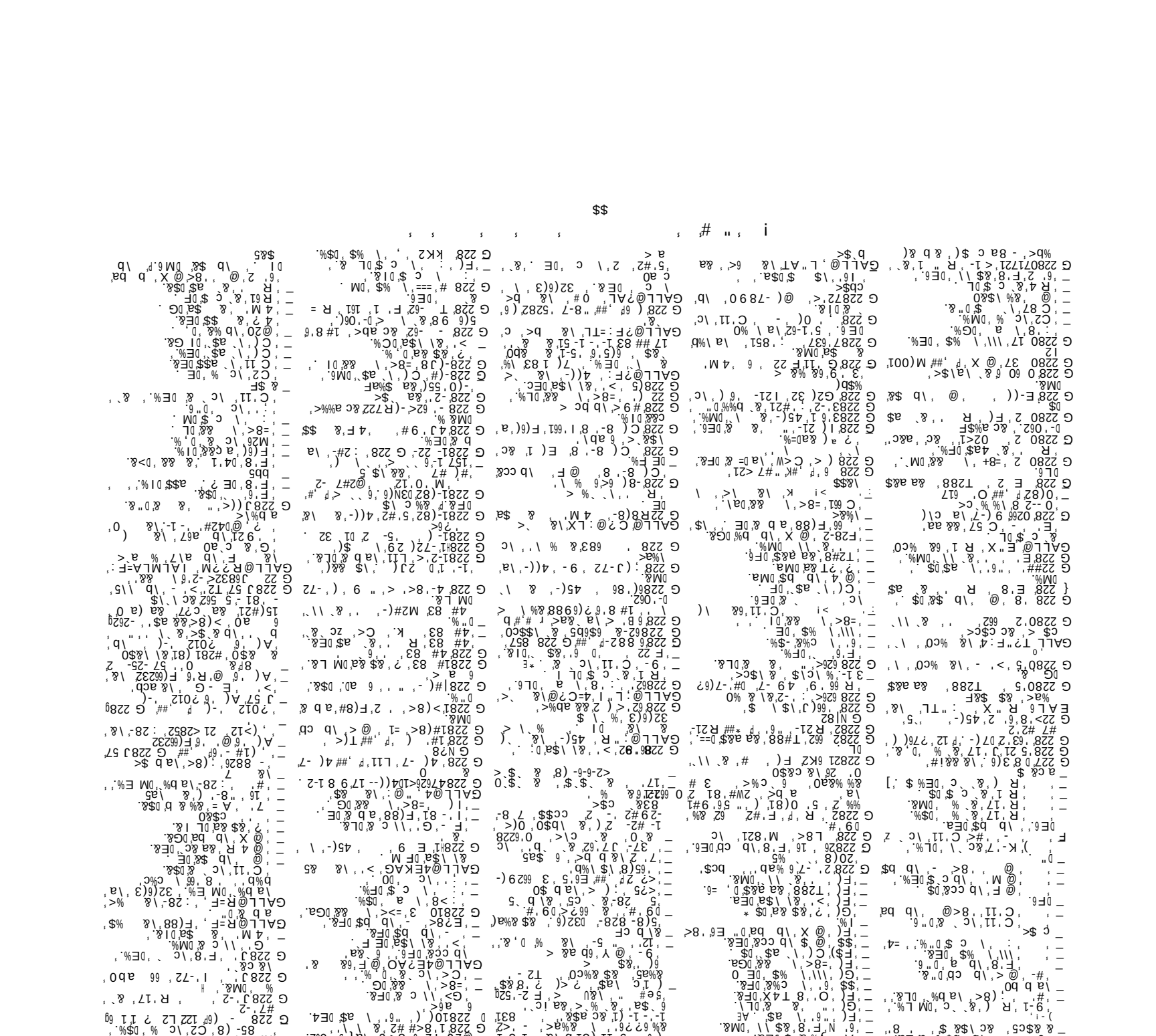

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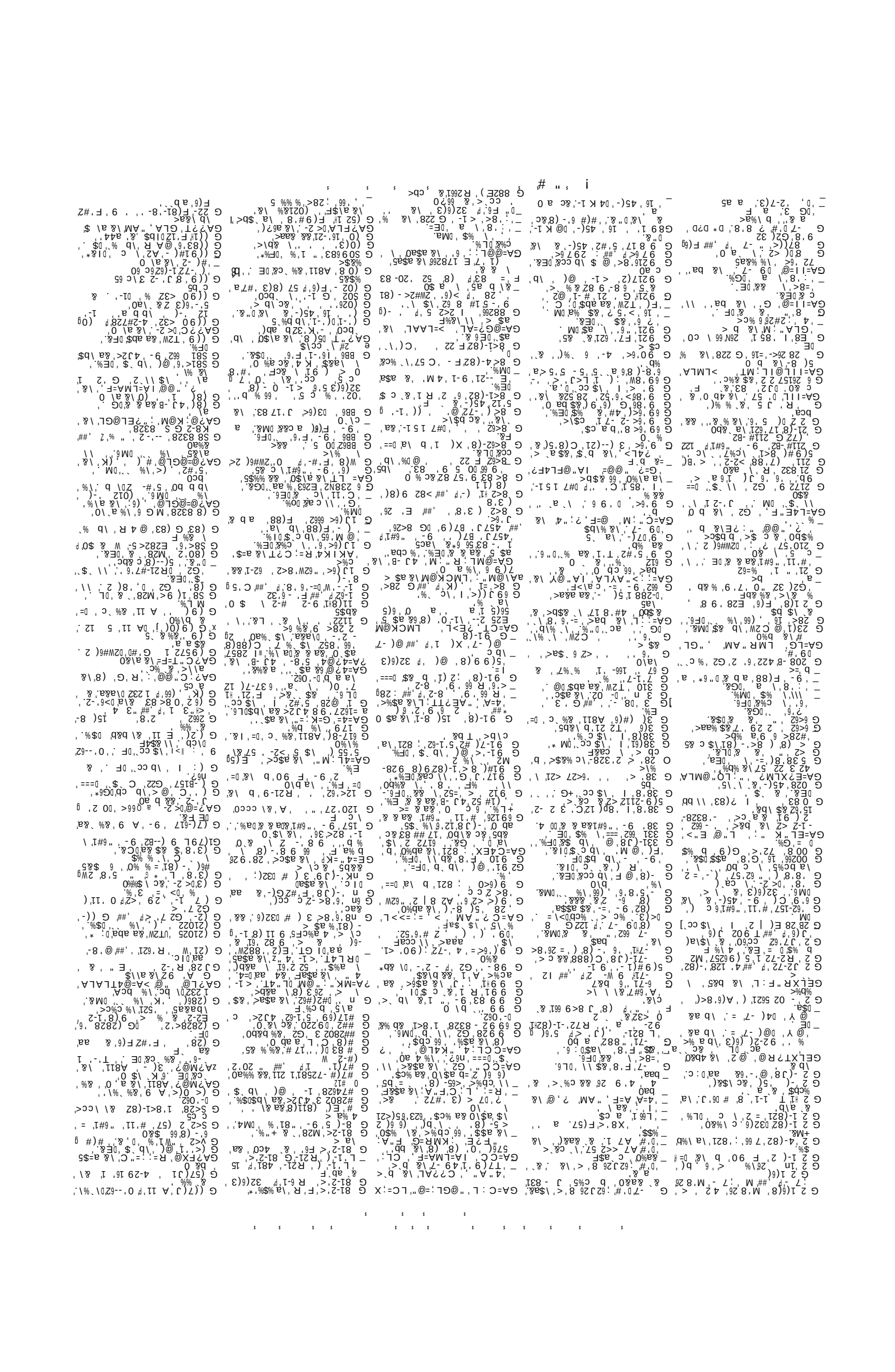

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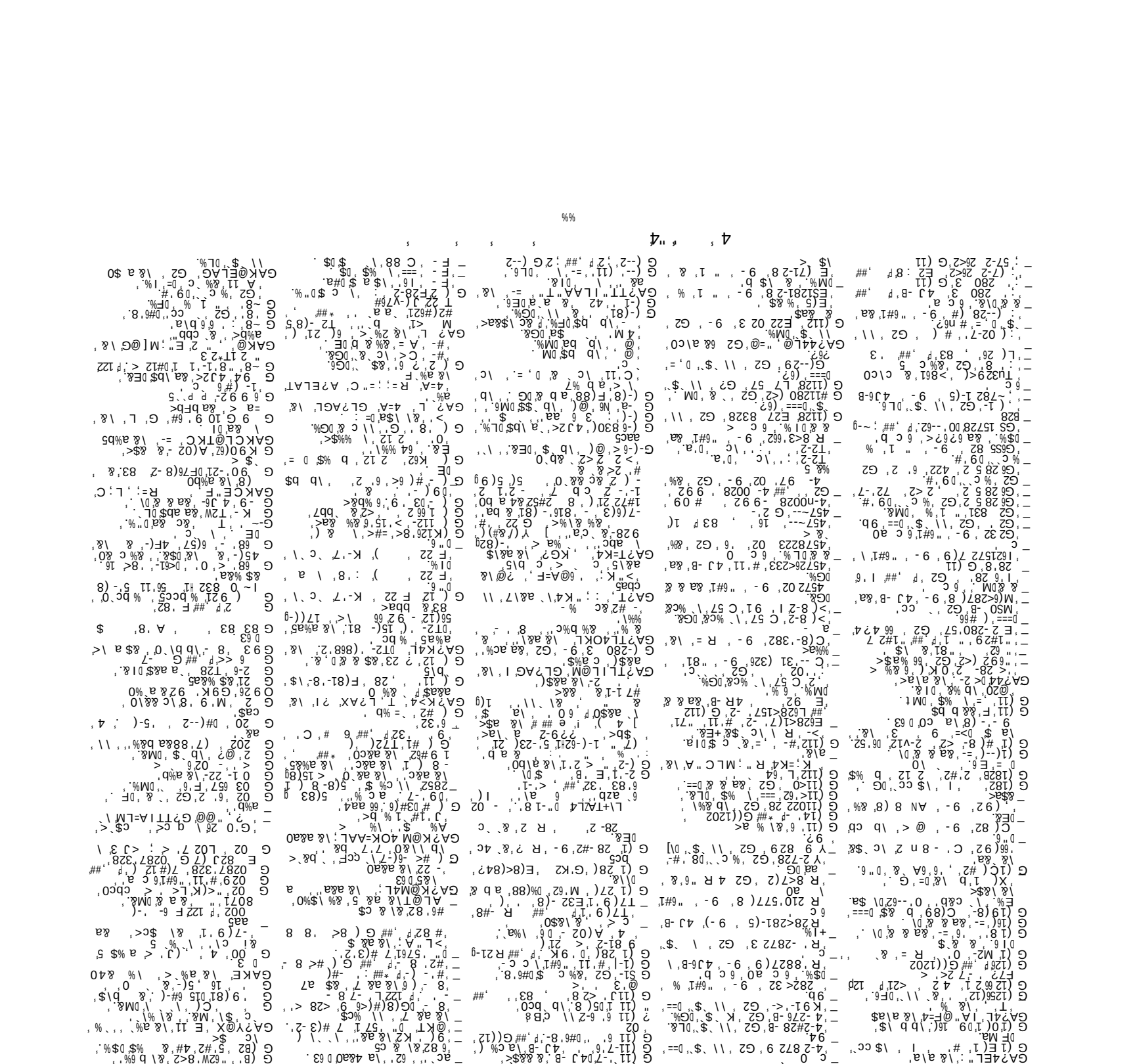

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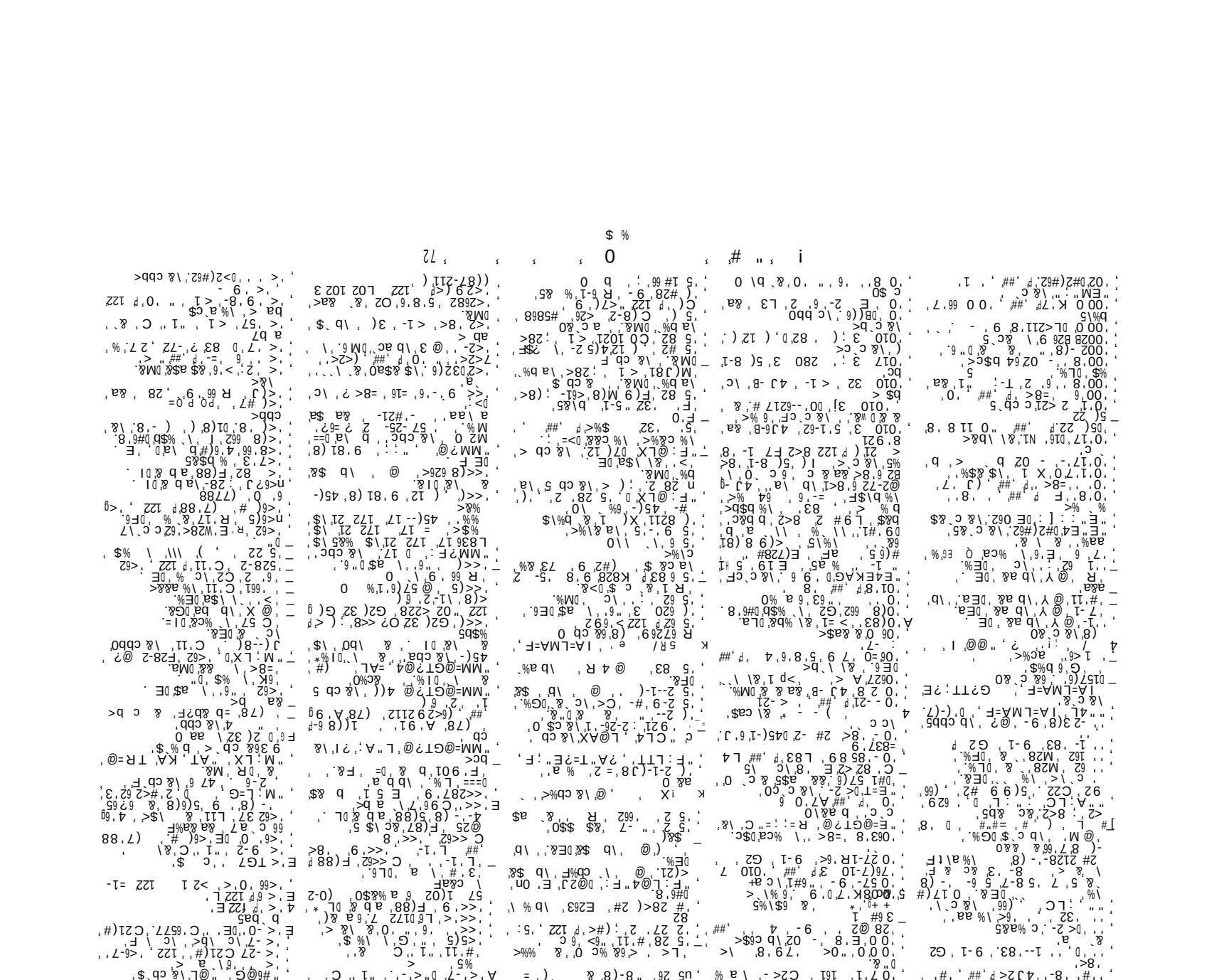

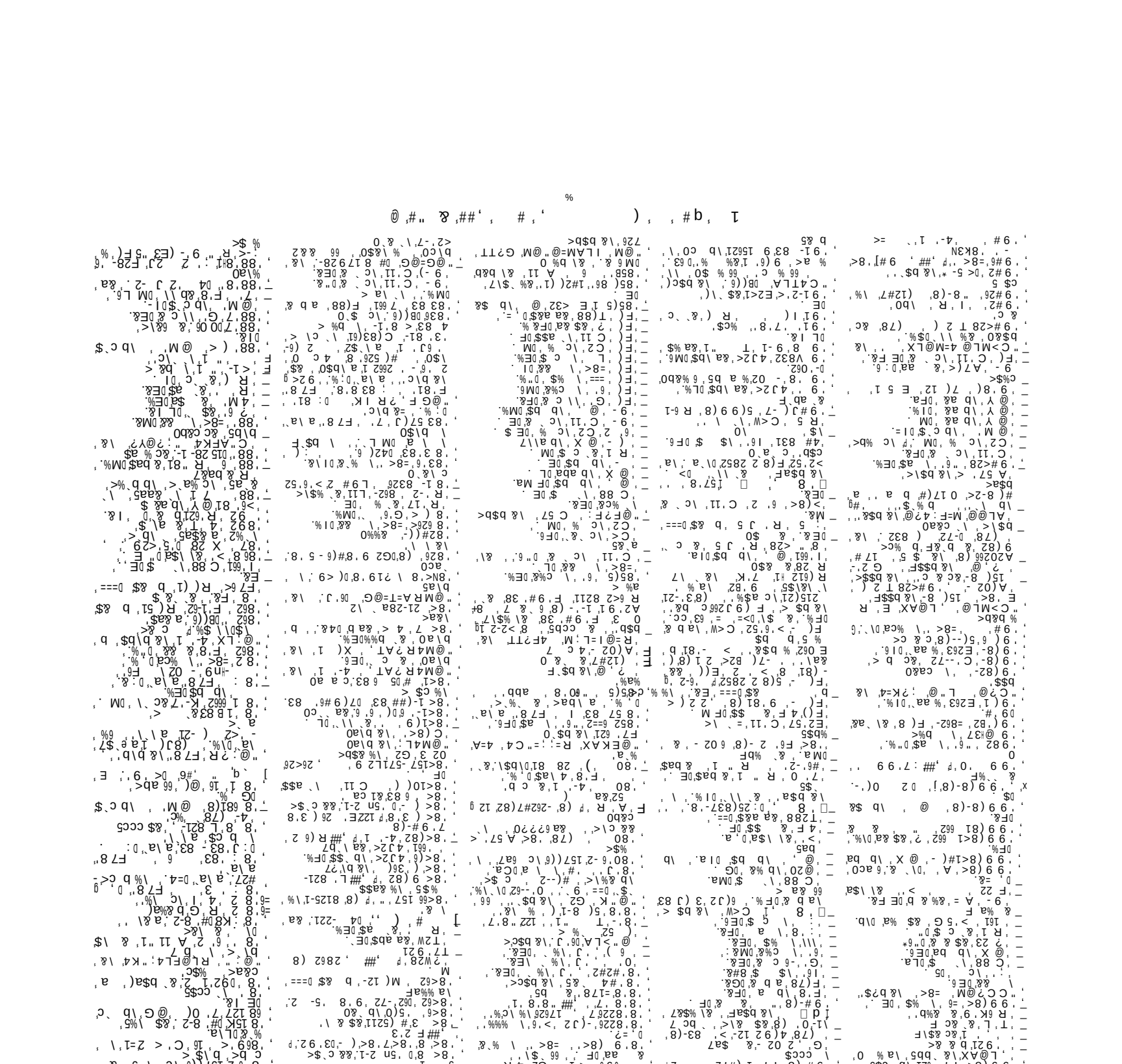

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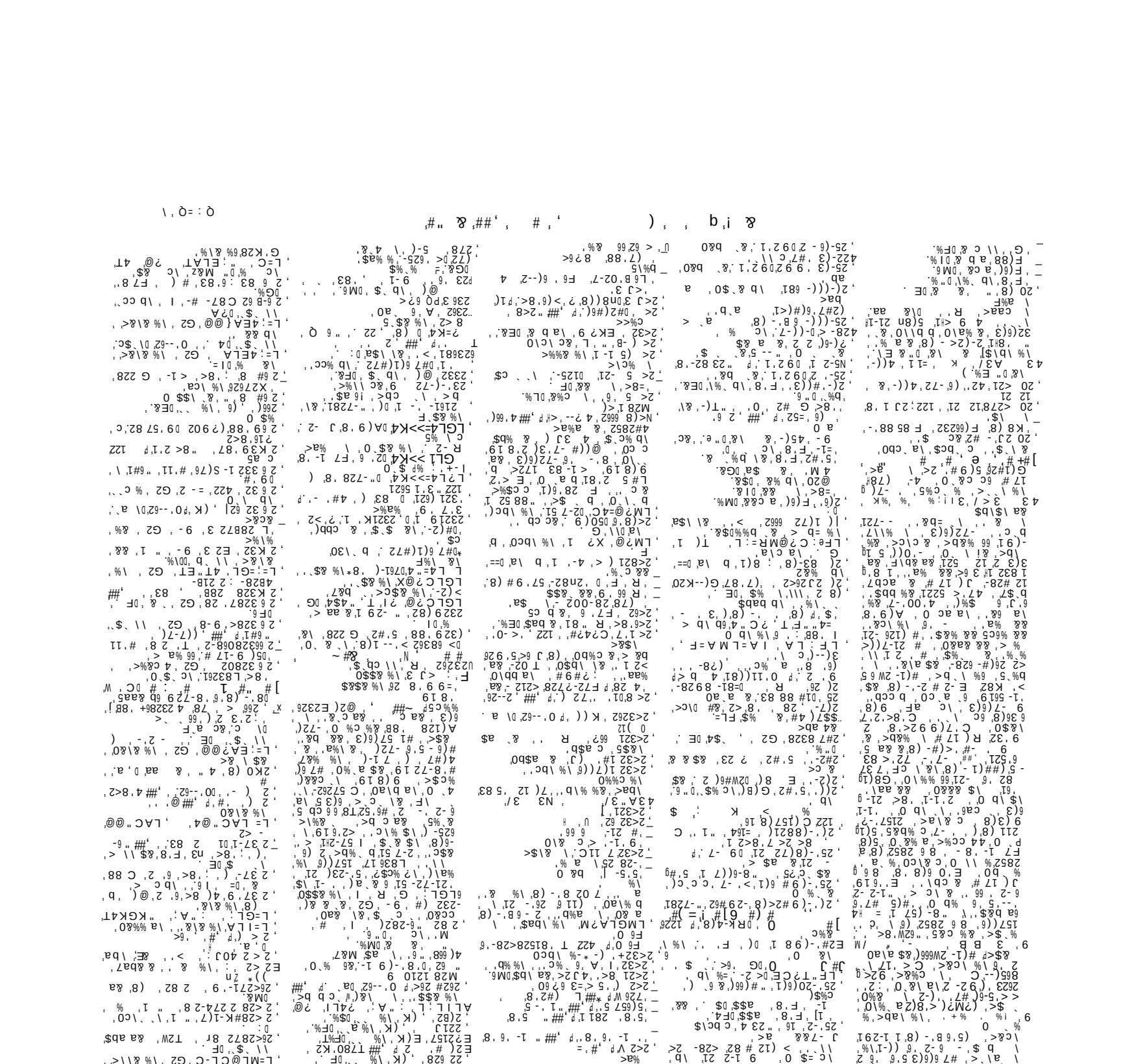

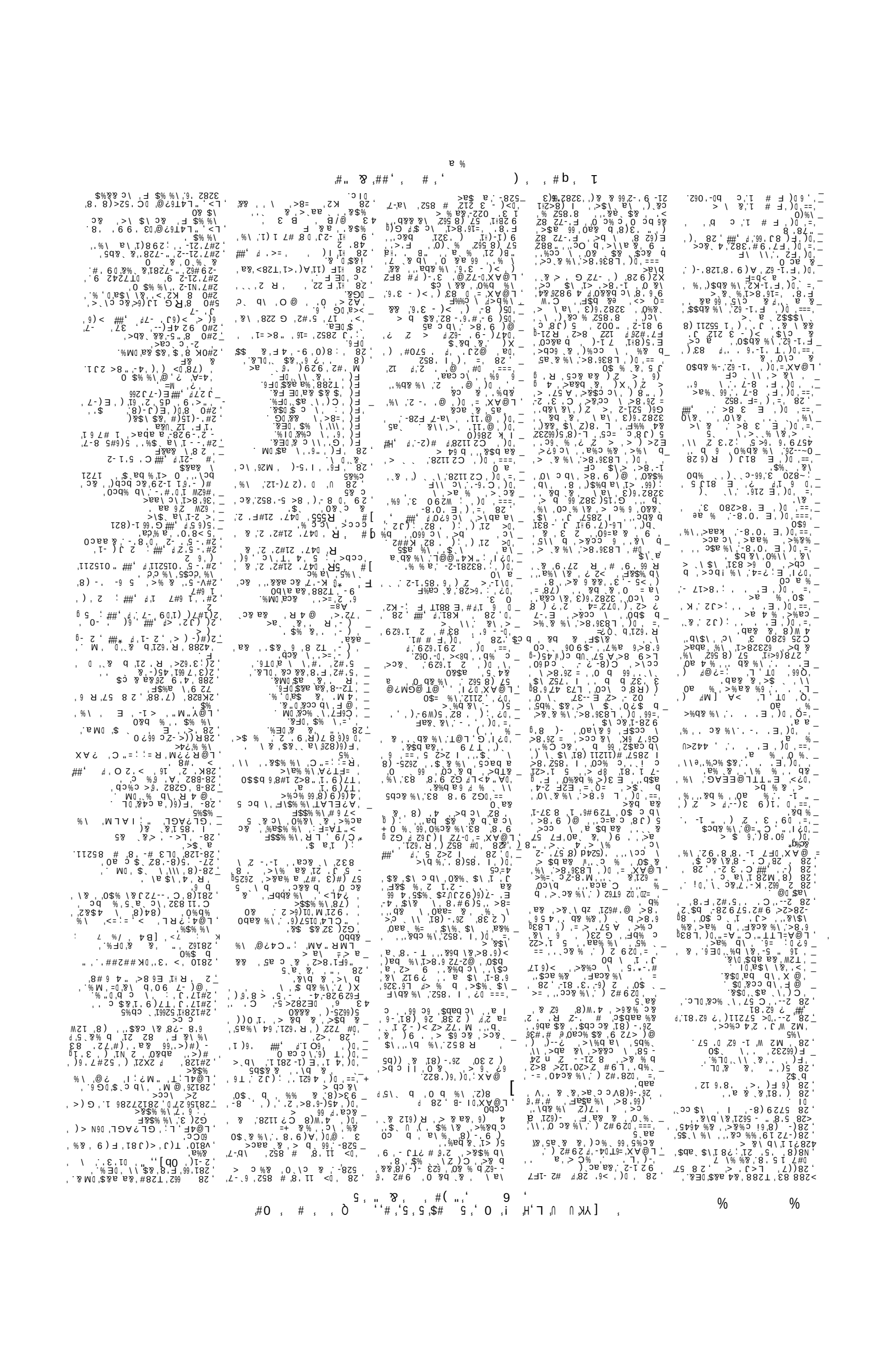

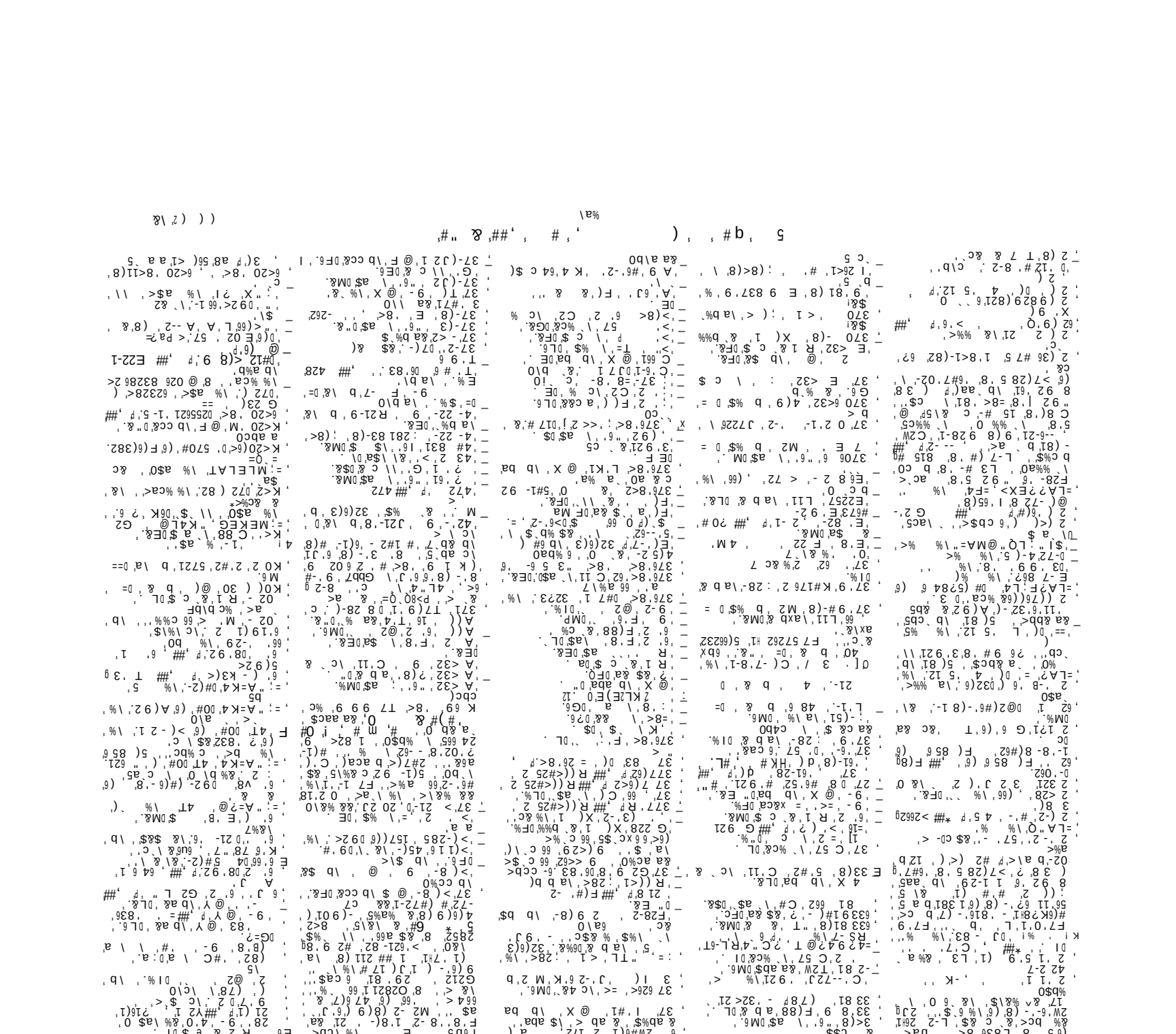

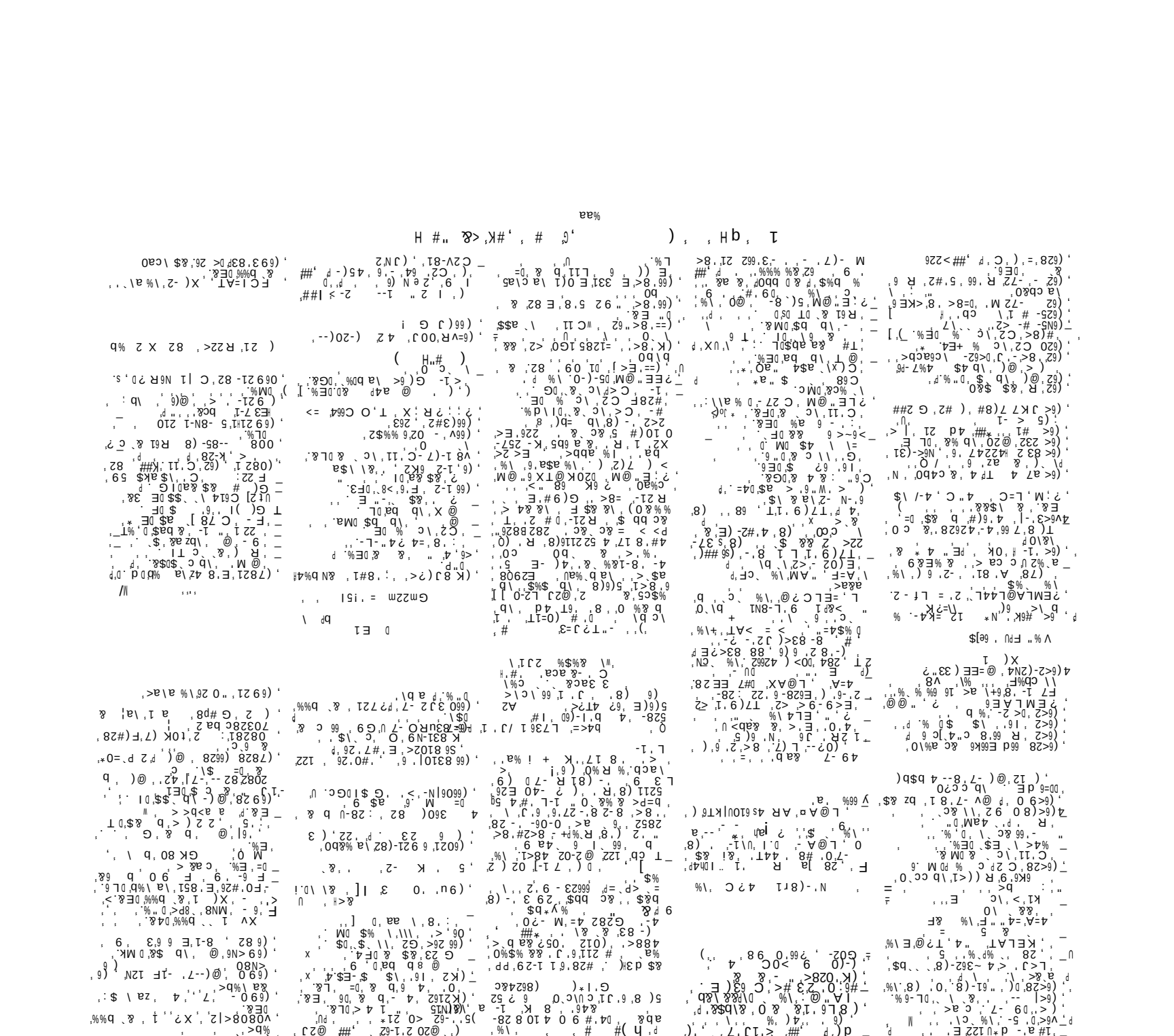

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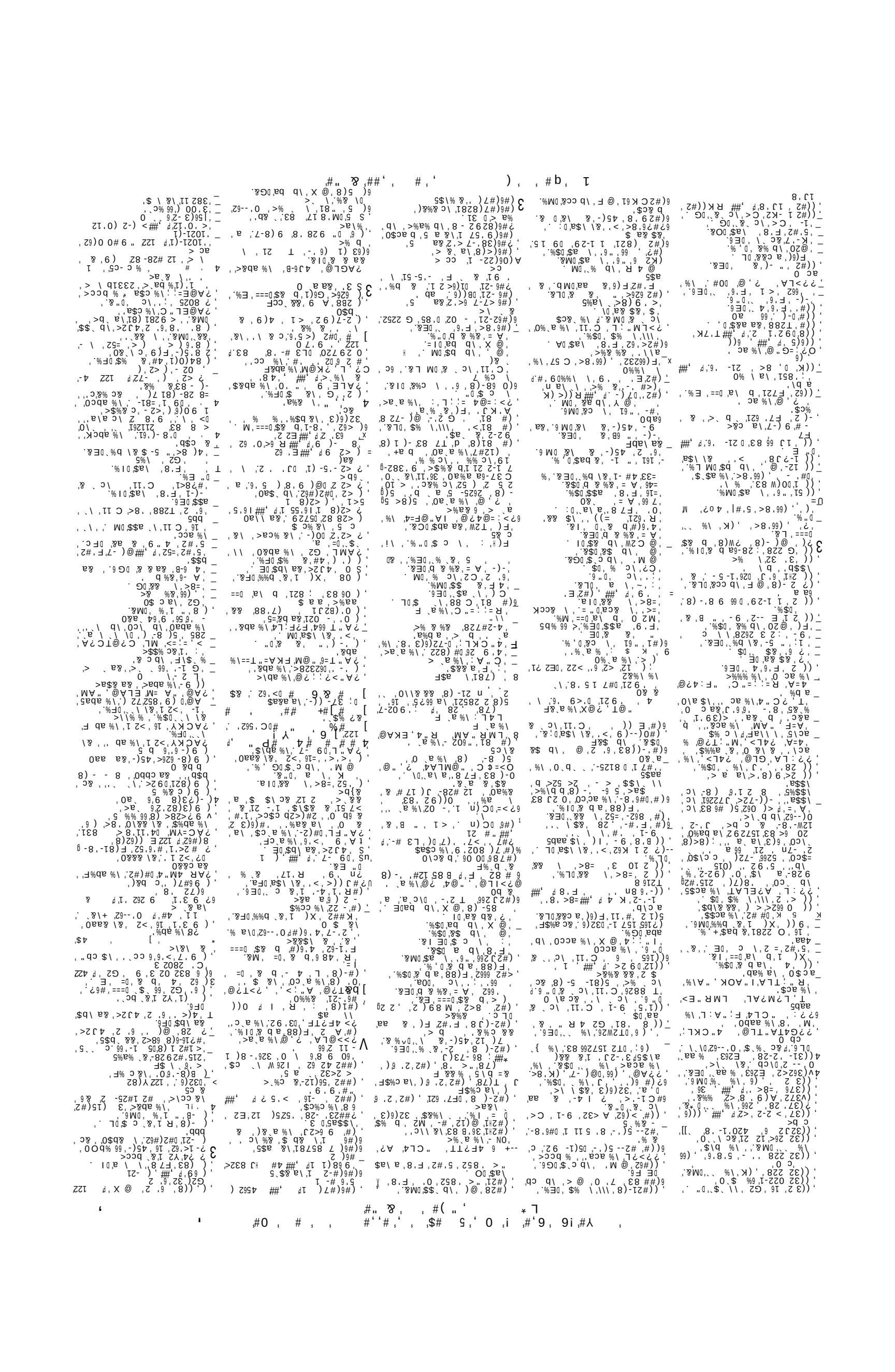

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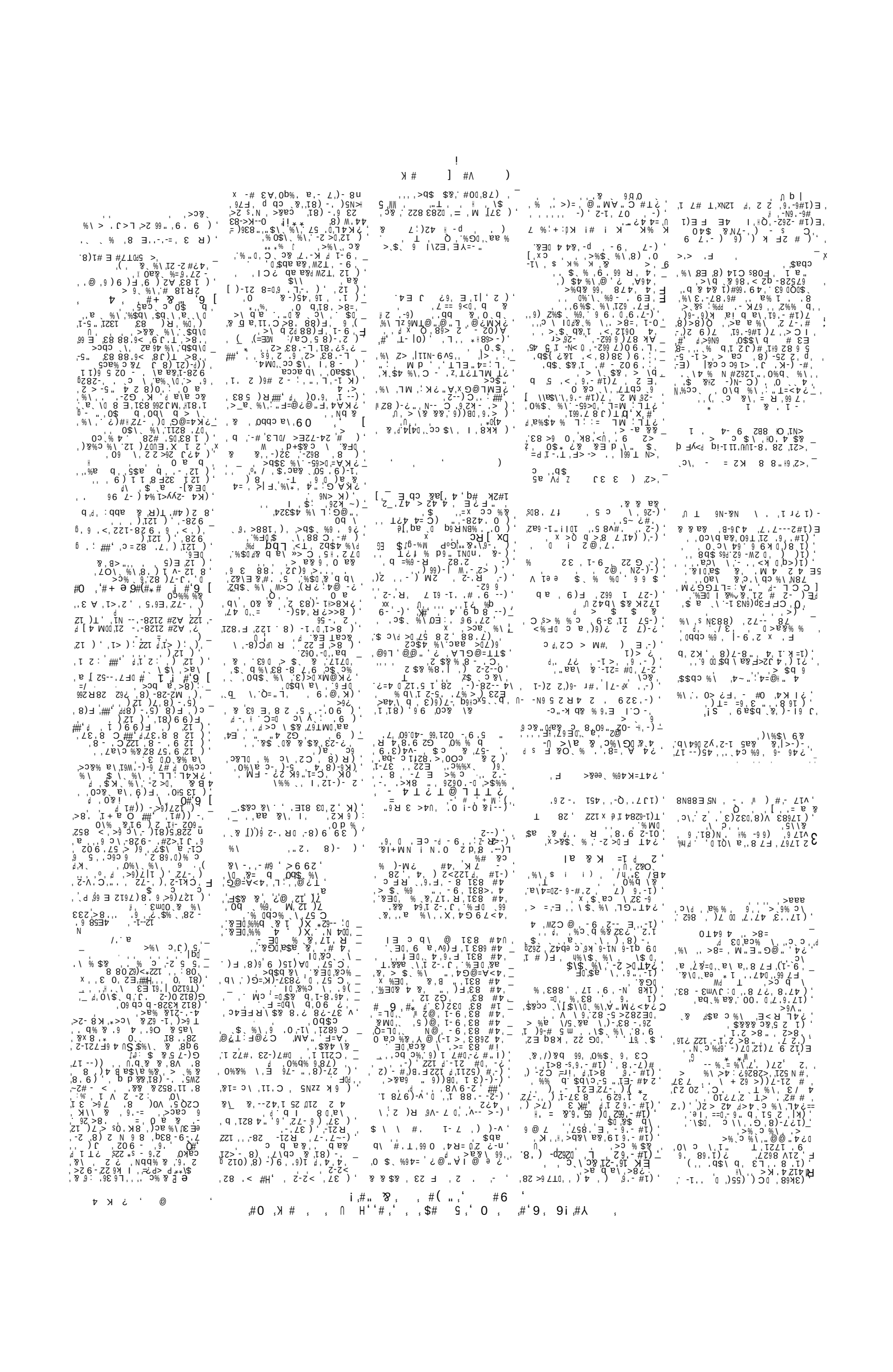

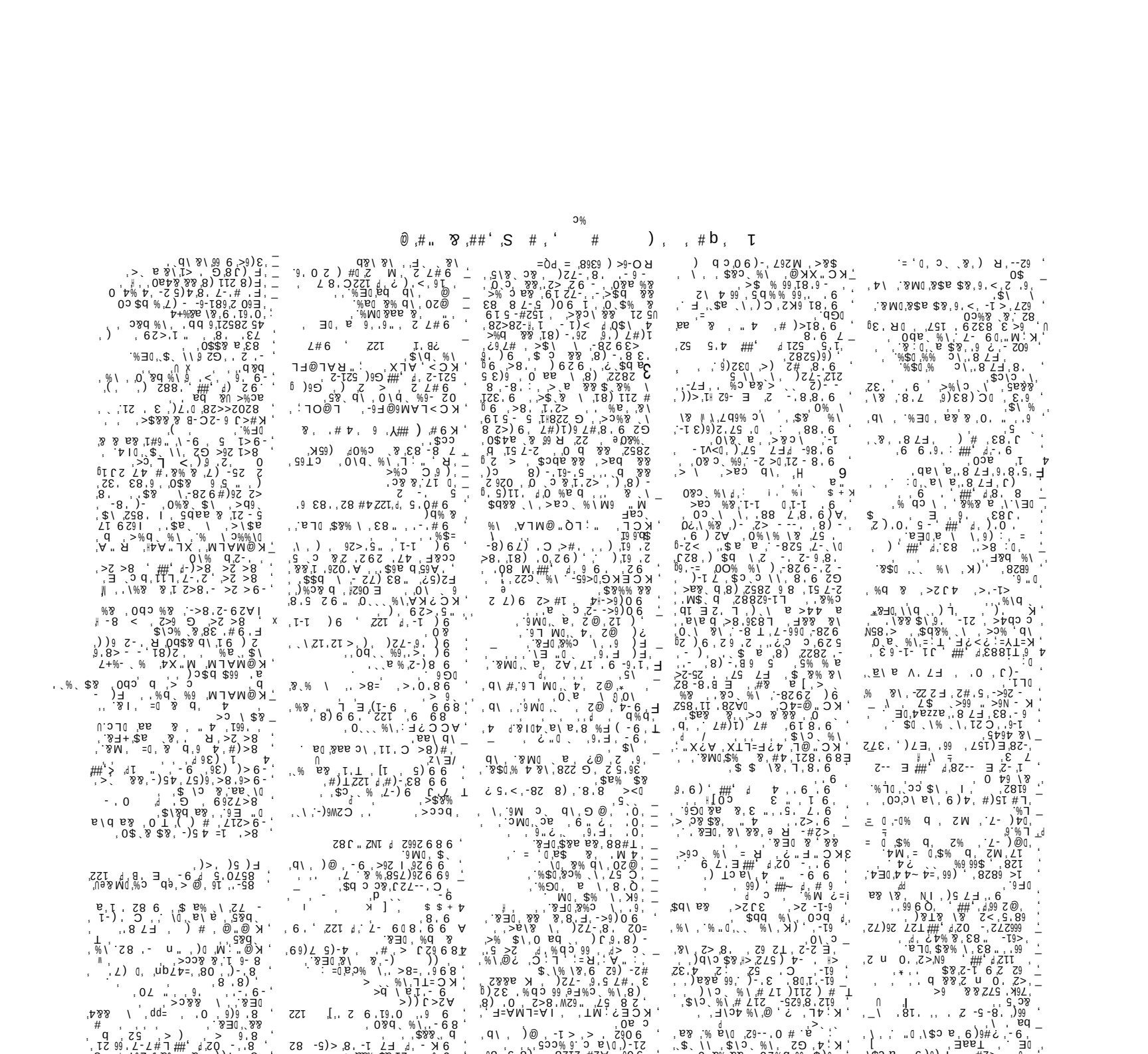

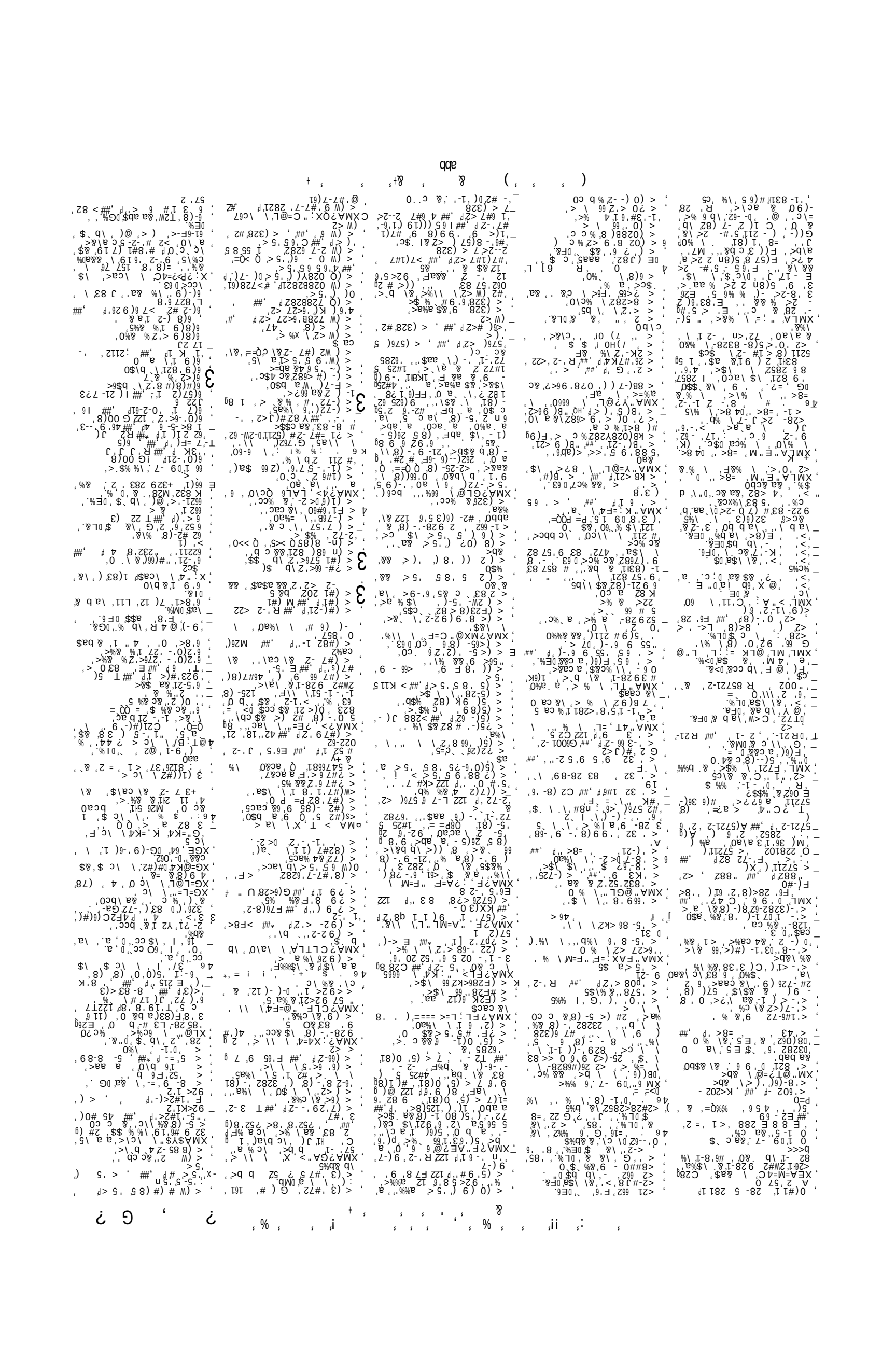

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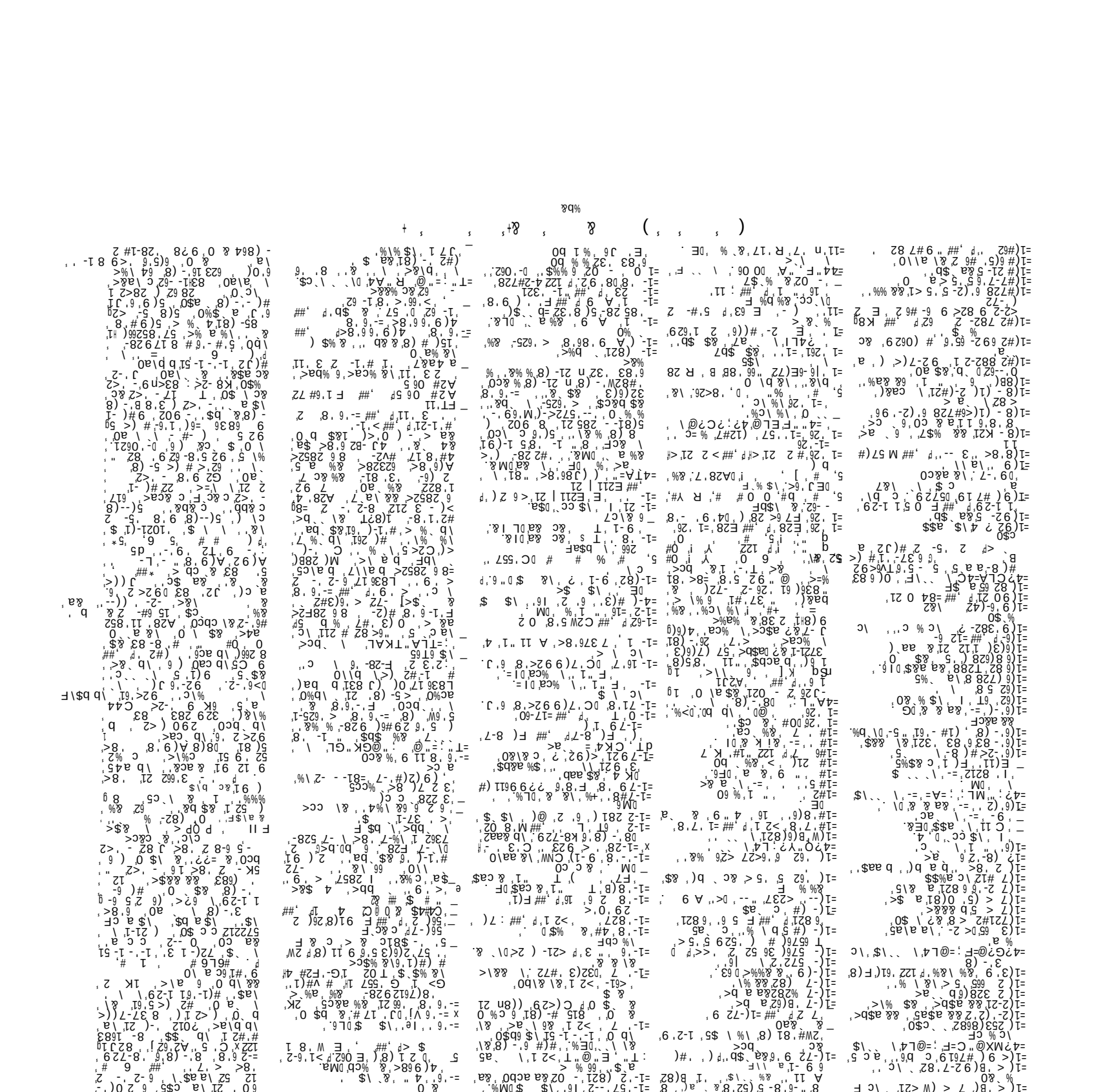

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=J93 G2 L " \\cc\
DE%.
=W' 26?'E2 - >5(\$\ \
=WO#6 9- C2W'\ %\ D, .
=W26621'E263'% aa DM&.
ab 0
=W6''\ cb%$
=W<'2P,## E 60 6
=W6'- 02 acc5
=W 850< #1 C2W'\ %&%''
=O=?@D9 -0 .\ =$&
=W9 n <6#' 92W'\% b0
=W(<21'&%\$?'
23 #- 1',## F'926-5
72W'3(91'&\%0
5 8 1] F'1-((2'8
-5
5 9 1'P,## 4722#-5
=W(<<'2 &a b%a<' &%\$5
&\%7'
=W(8''R 1'&c $'DL .'
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=QT"FF=,["T:' D=B-'55
7 -6. 9- C2W'\ \$&'
\ %\ DG , 6. \ %\c<

6W-'#'6'#'<61- C2Q'\ % c5
=W-6'7 -: C2W \ %\
DI G6.
=W-6'7 '5'8 C2W \ %\
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=W-6KW(57 -6 \ %%$< \
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=WJ?T-7'4 'b &'D 'M&.
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F78'' D, 8'8*'a \a DI
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6 29 -1 '\ &%&<
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6 217 9' 1 '#' \ \ a
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6 2 '1 'D17(3 8.'64 &a\0'&$'
% ' &a \$ `<' F7 1-g
'8 - ' \ &%$0' \ ba$
2< (' -(8' '< '852<' \
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60 ' (92<' \ \a`$'
@ (' 9' 1(62 9'\b ab$5'
>7 6 ## 821' 290'11 21' \

&i$<' T((' 57'#26' \ '
\c <
6 2 (17' > PP==
='X 8'a \b&<'
6 83 8'2 & ` 0'
6 179'6' 2'@ 3'\b ac`DF .'
6 ('DX(17 .'# (T' '#' \ '
&$ 0
\XAF" ' '52' \ \$&0
=B'0'6'G8'-' ac`DE%.
_ '6' 2' G8'-'P,## M 652'
_ G(6(
=B'65('T(6'4'6 ' ac`DE .'
& ba$
=B'9'6' C2W'\ %\`D,%.' '
ac`0
=B'8'9-'T282 L2&a a\4<'
'6' 2' F'8' a$$'DE&.'
=B'8'3'D9 -7.'\ &&&0' \ '
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\ & &0'% ac<
=B''D" '0'5(1- 92.'c &&c<
_ 'D=8<'8'5(1- 92.'P,## > g
_ '9''D>'2'9'.
=B' <'A'6#7'66 &c5
=B' <'P,## F7'9(1
=B' <'F(' " ' & &'DF6.'
=B' <' 6 921-(82' D32(6.' &$'
&%cO
=B'176 '#'\ \ a'DG66.' '
=B'16' 1' =4b'

=B'-21'& aa\'
=B0''P =
=YE"AT"' D4#'-'' =10'-'
E' 1.'"1''C'\ \$&0' &'
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=B8'66(B'4#'& %$'DM .'
=B(' <'#'11'"6#1'6 c &''
=B-'55 78'-6' 9-' C2W'P,##
=W-'55 7 '-6
=B- ''G '-' ac`D" .'' \&

=B ' 1;' '#P,## =B ' 8(
?17
'DMB 47 .' # (T' '#' \ '
— &$ 0
=B 7'' '#' \ \ a' DIb.
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=B 9'D4281 9.'# (T' '#'\ '
&$ '' \ \ad
=B 9'1'8<1-(82'D32(6.'c \a5
=B 9'47 0' \ &&$'
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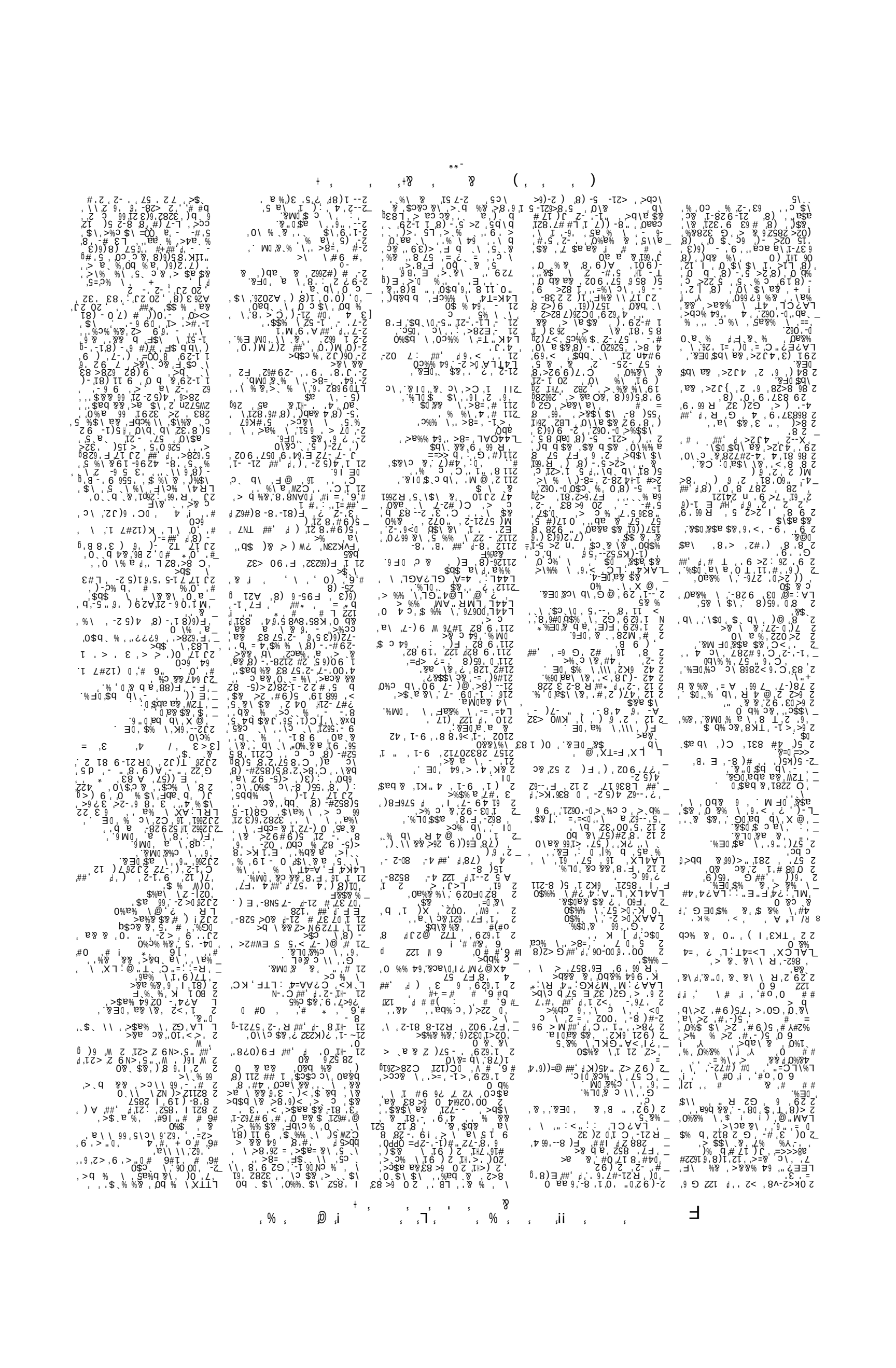

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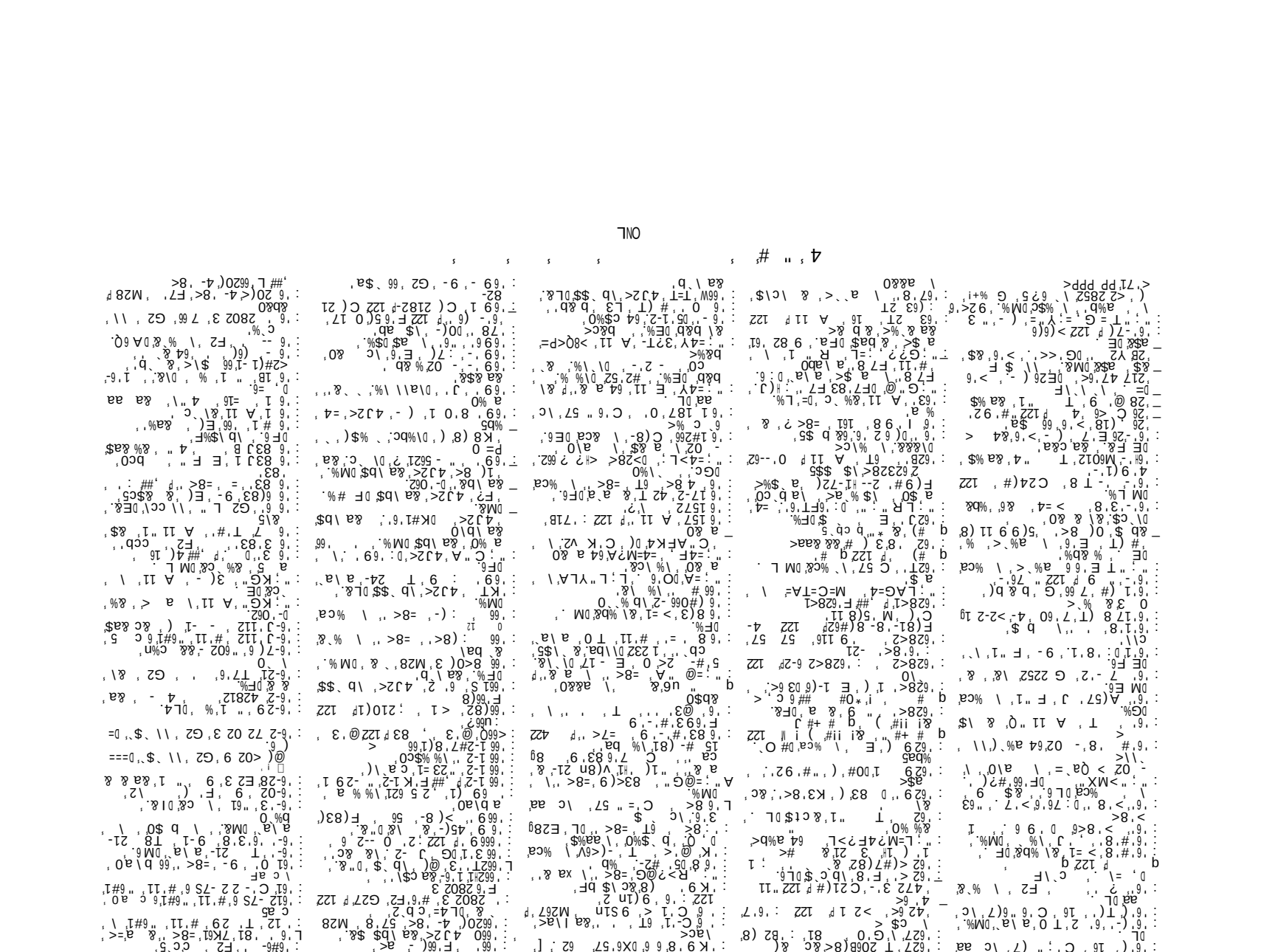

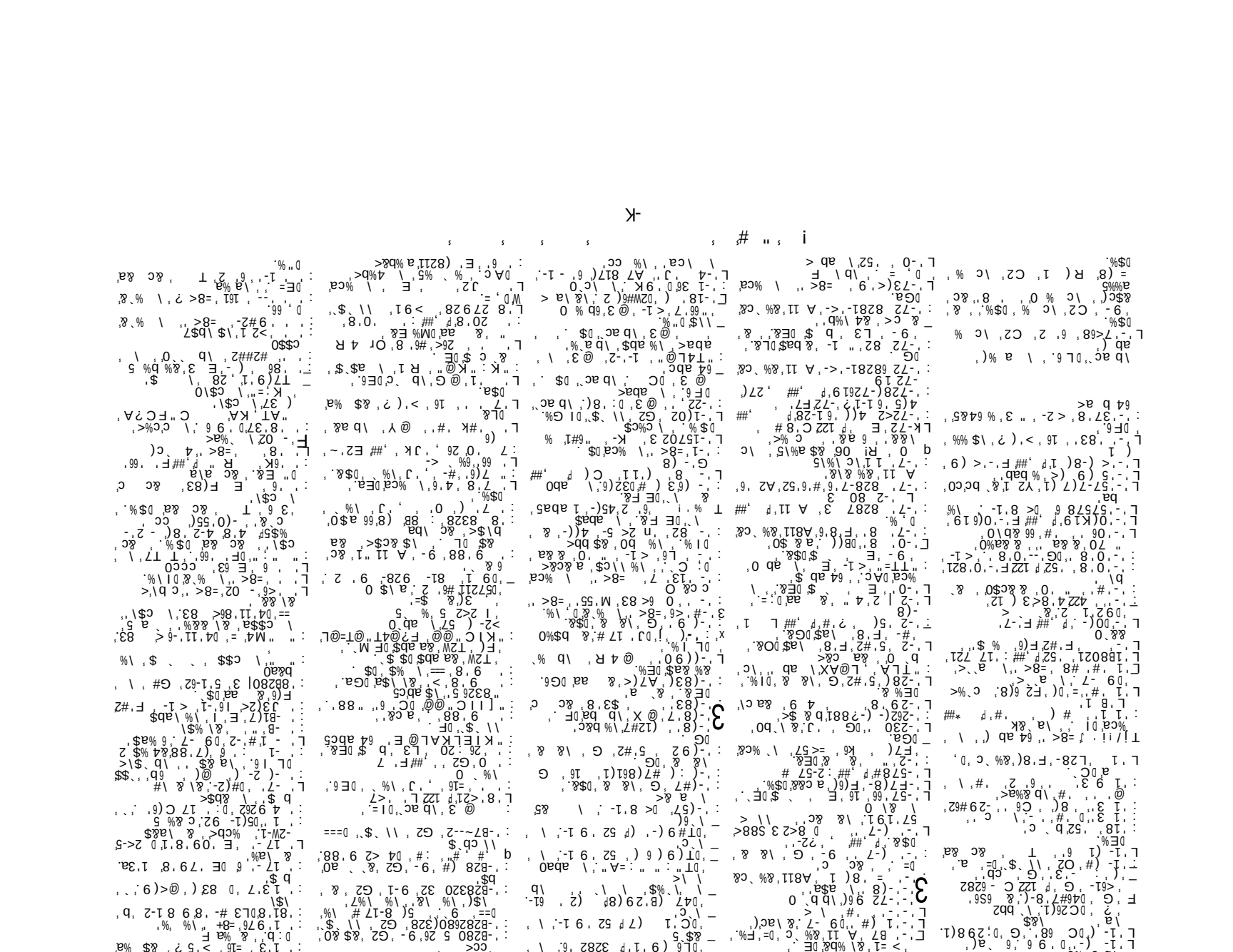

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L2(J22'4?'84 $$'DE&.
4F'&' $$'DE&.
C2#2802(' 6' 2'@ <'\b cb'
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=''F'#2'G '+F(6='\& &'
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2#7'6'1'"#(1#7'-2 <2#(1-'
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2 6'>'' #'(1#7'-2 <2#(1-'
2 6'09 '- 02'6 %#$'
2 50(' E L" 'a$'\'D"%'.
2 6'@'Y'\b a& 'DM6.
2 6'@'Y'\b a& 'DM6.
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N 6- ! \$ cc'D%$'' &'
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2 72'4 (' F'#- '8'6 % $5'
2 72'4 (' F'#- '8'6 % $5'
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2 280(157' '(K \% ''
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2 6'a'=cF'\%'cc%('
2 6' '''\ %$ D$'.
2 62 <6I'' 8'0(2 2'
2 9(('>' &\$aDE
2 1' ' &'D%$'.
2 7(28'C09 '\ $'DE
2 7 8'4 &'DL%'.
2 662 '>' &'\'' D%M'.
2 41 '?' ##'(2I K9
L2 661'9- 4'9(1& + 66a0'
L2 '&'D02 n n'T '"1'
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L2 A'K'D02 n n'T '"1'
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2 R' '&'a$ DM%'.
2 6211F'8- '% b<'.&
2 K83' 9- '=52'\ &&'
2 K83' 9- '=52'\ &&'
2 K83' 9- '=52'\ &&'
2 21'8' - 02'6 \'\<' \
2 6(7'9- ' 4&<'&a b'DFb.'&a'
2 1'9 8'>'6'66 $a'
2 81'4J6-B'&a &'DL$'.'&C'
2 D'2-'&C 'F
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2 3(-' ' M'7'c c%'<'
2 3(8'1 '& ba'(
LAGK L@'16'4(' -72 8'?'
' 8'' Pb=' '$%'0
LAC"@'DG '10'7 >2'1'
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2 9'8'O'6' D$%'
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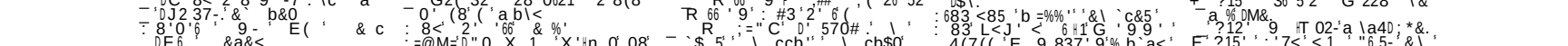

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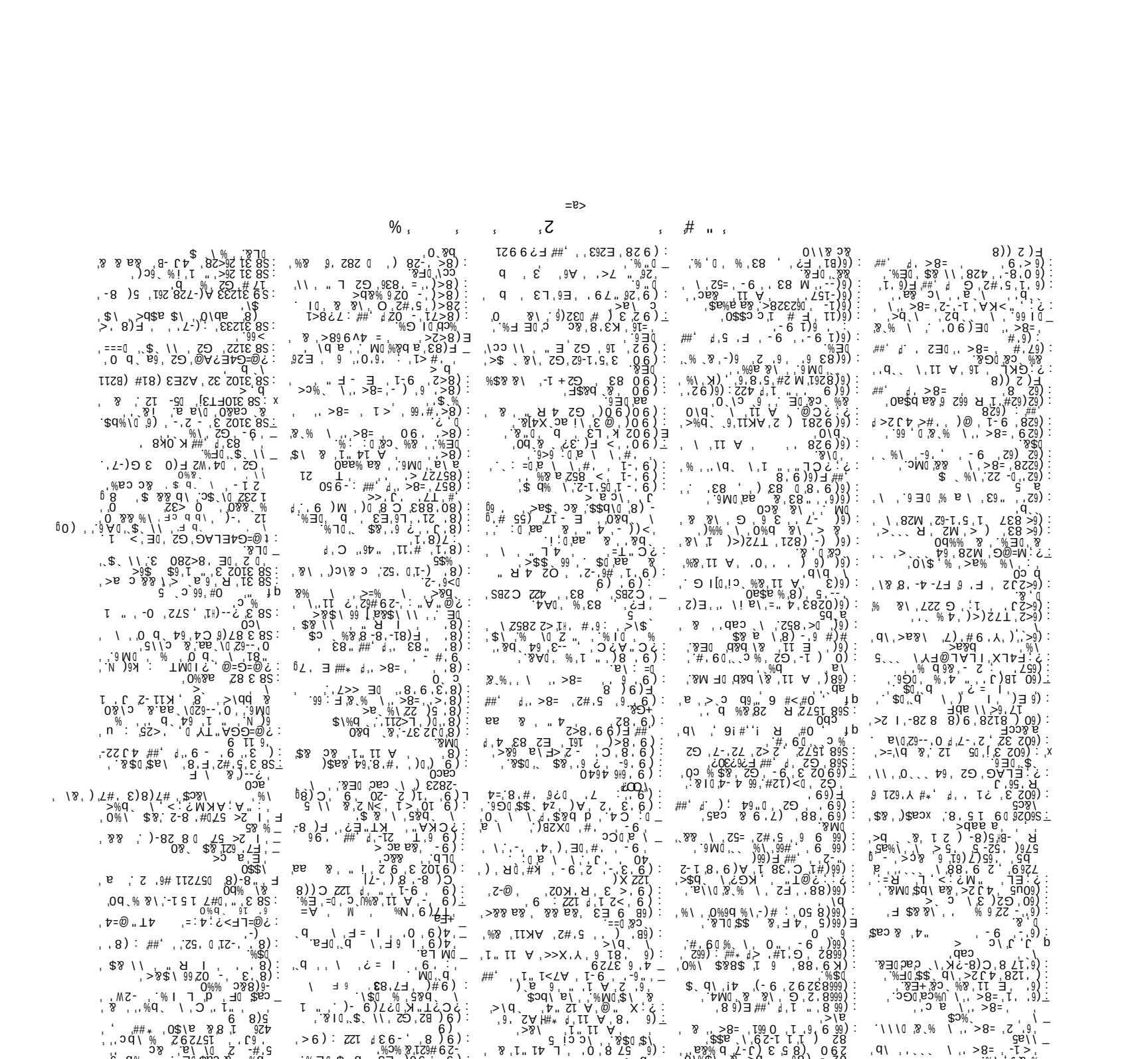

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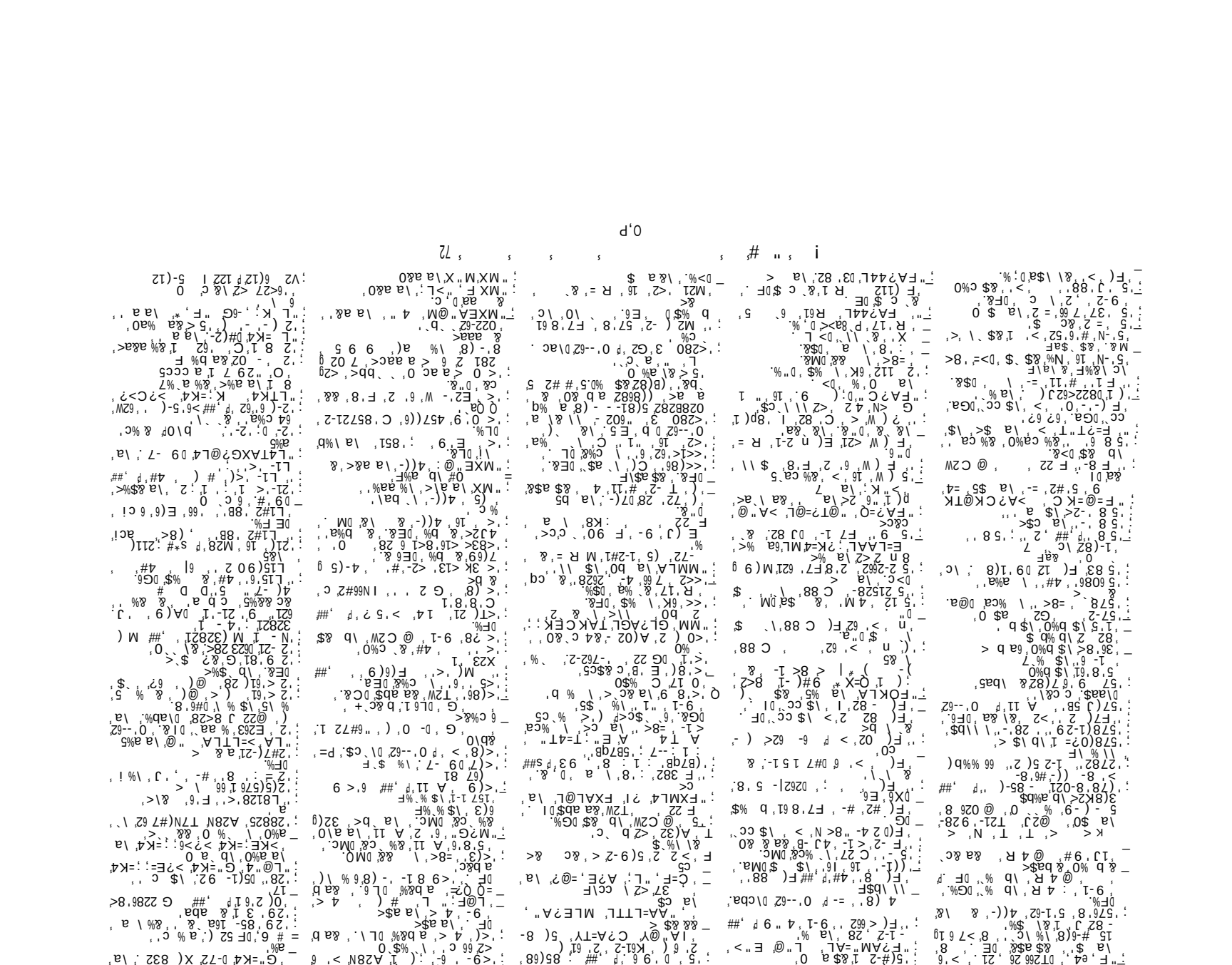

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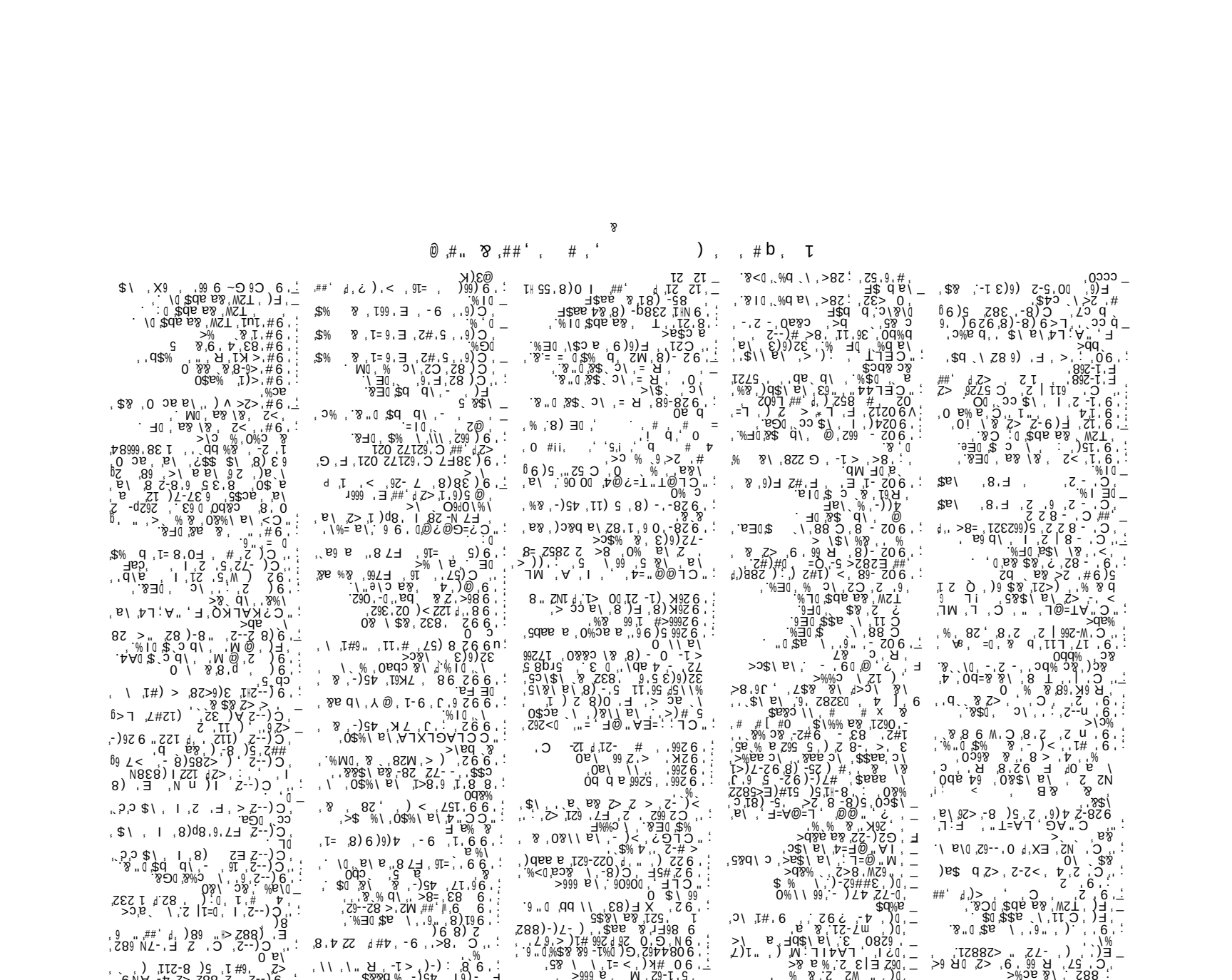

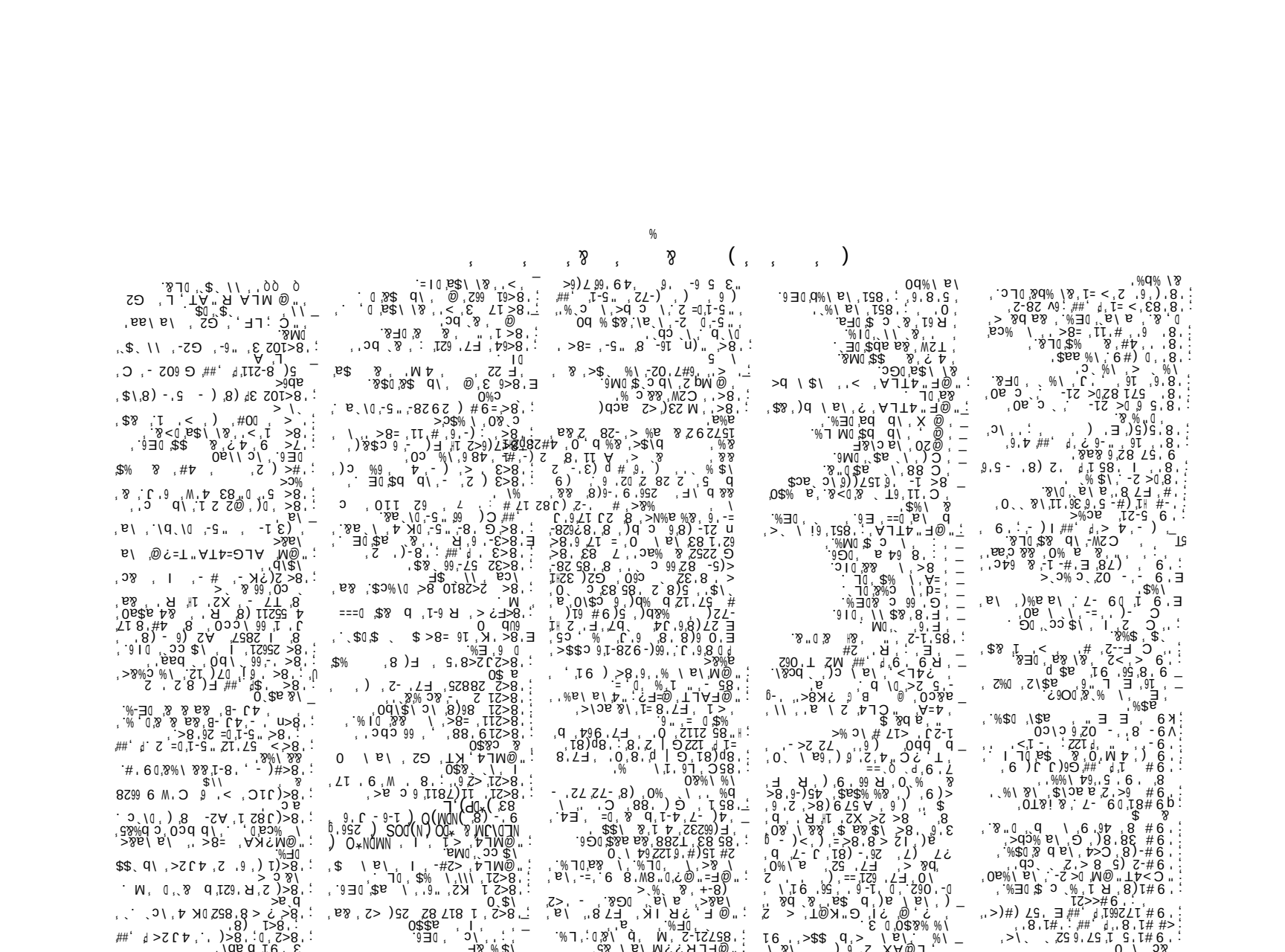

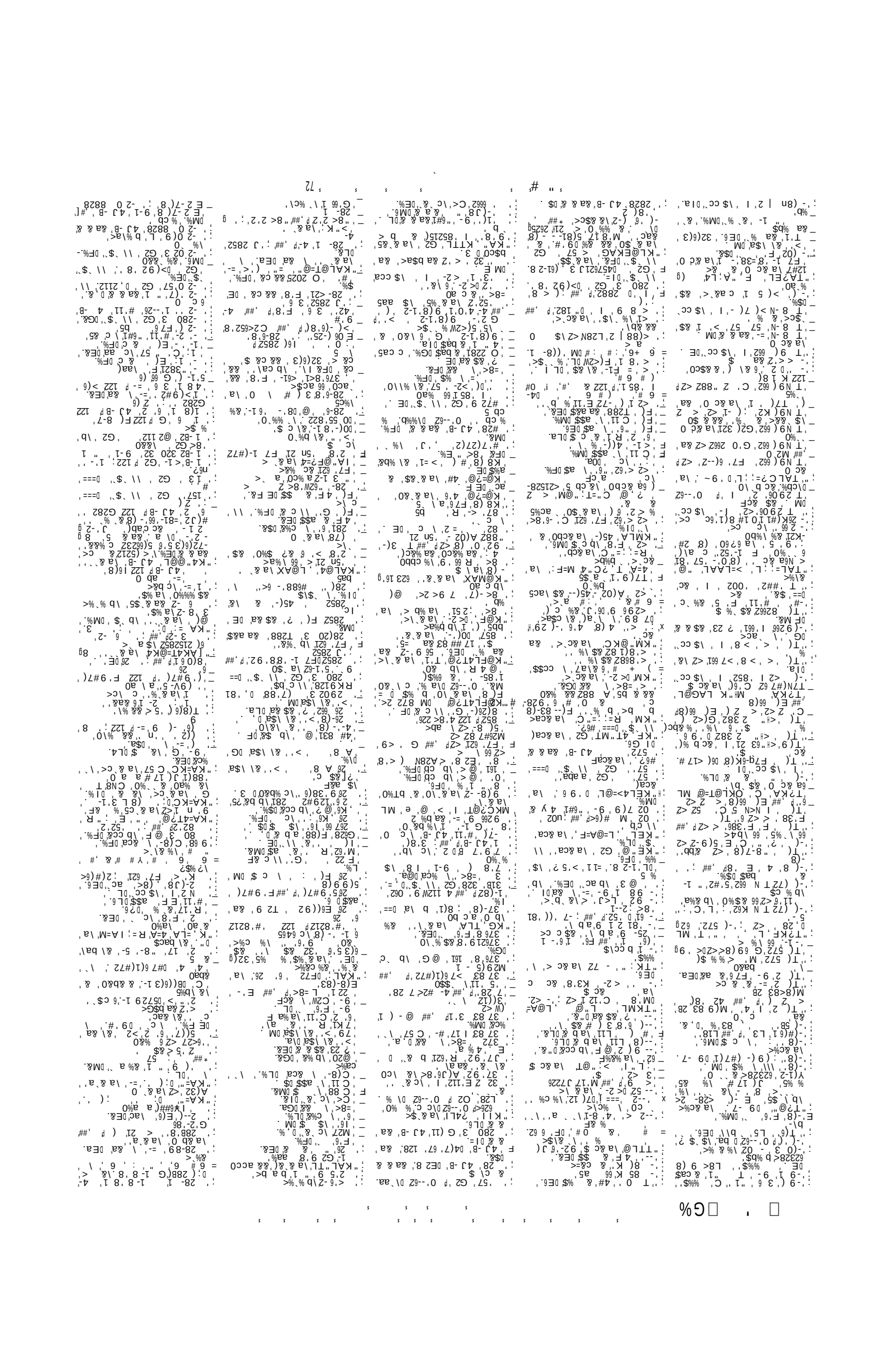

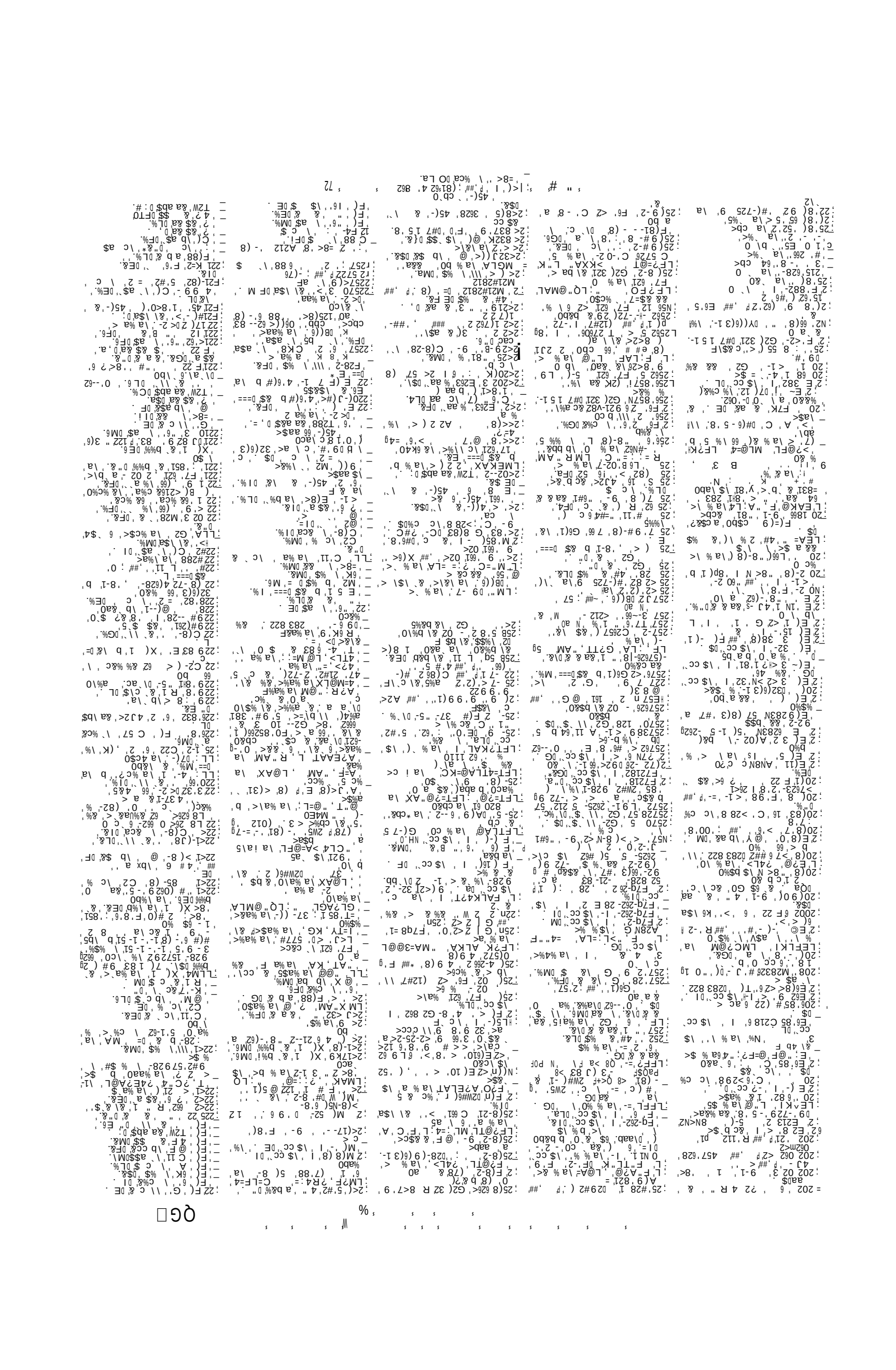

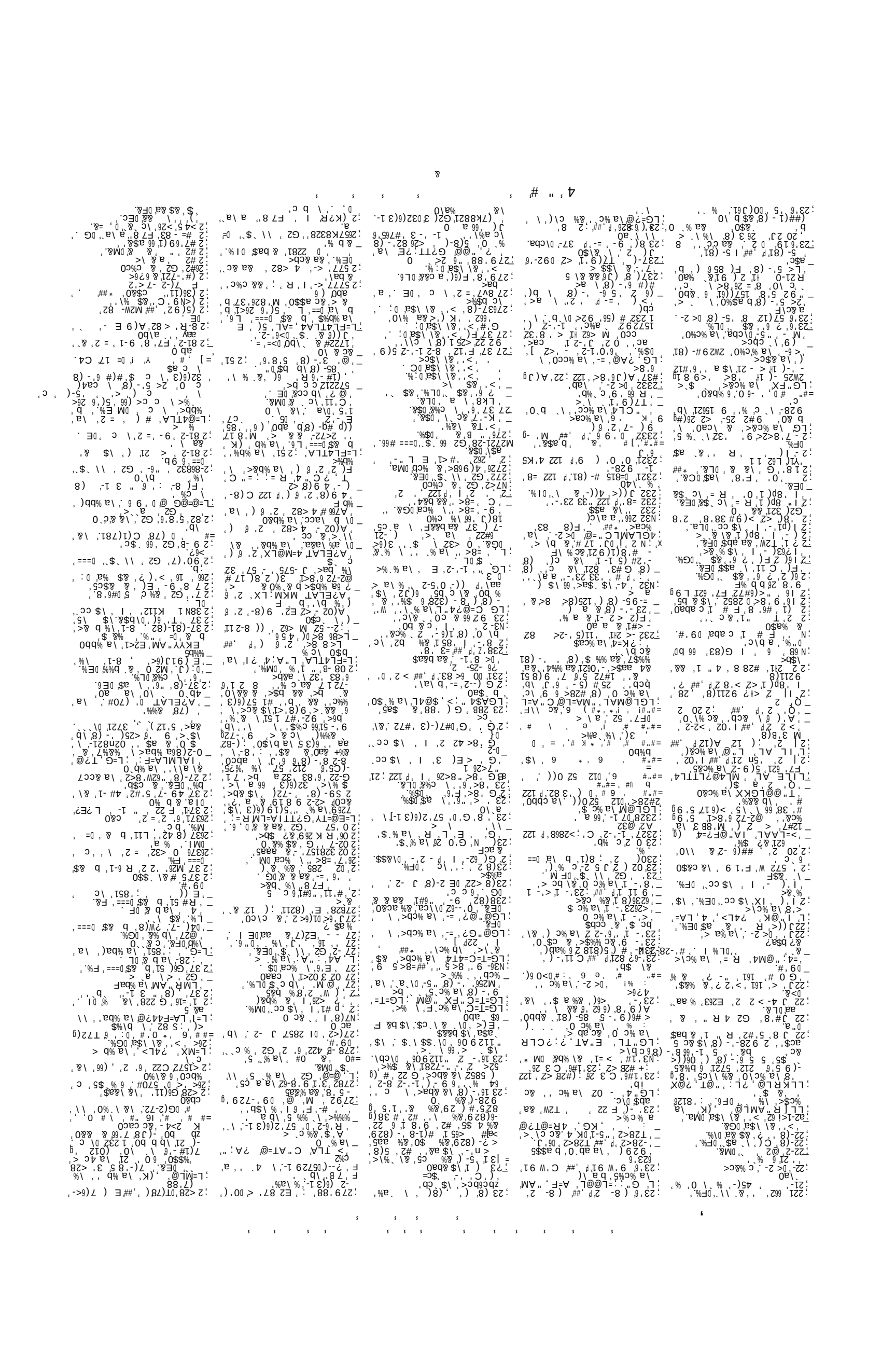

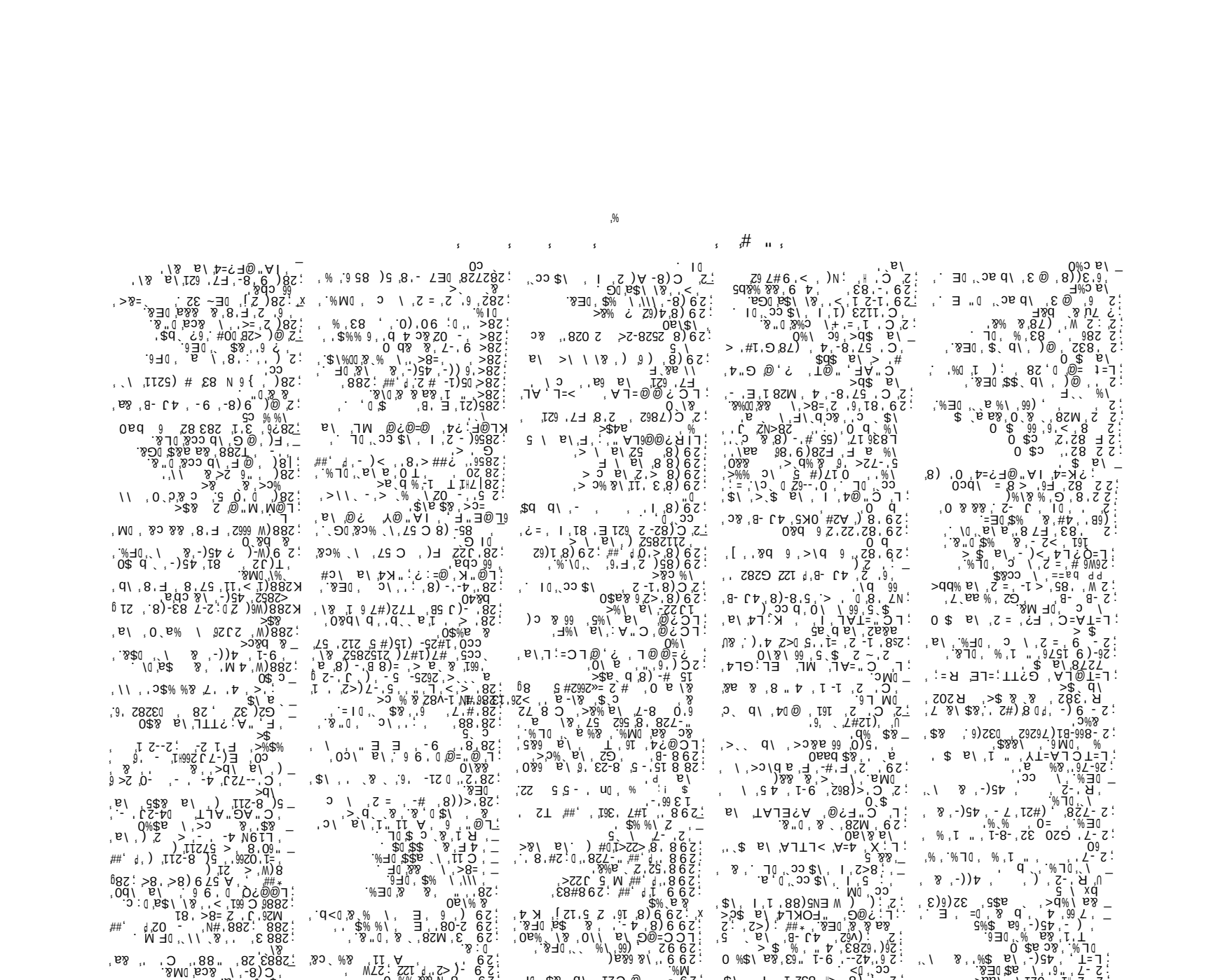

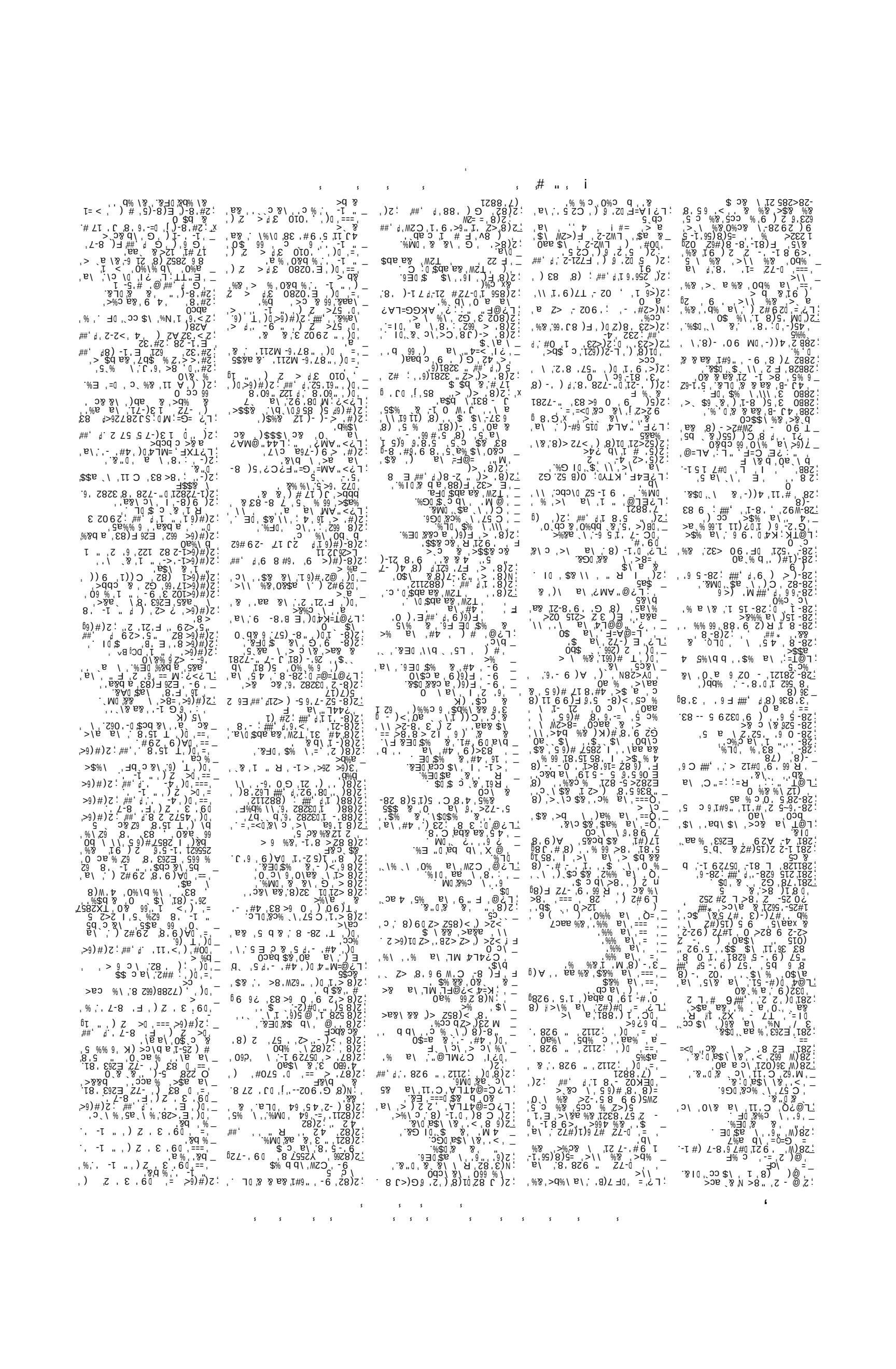

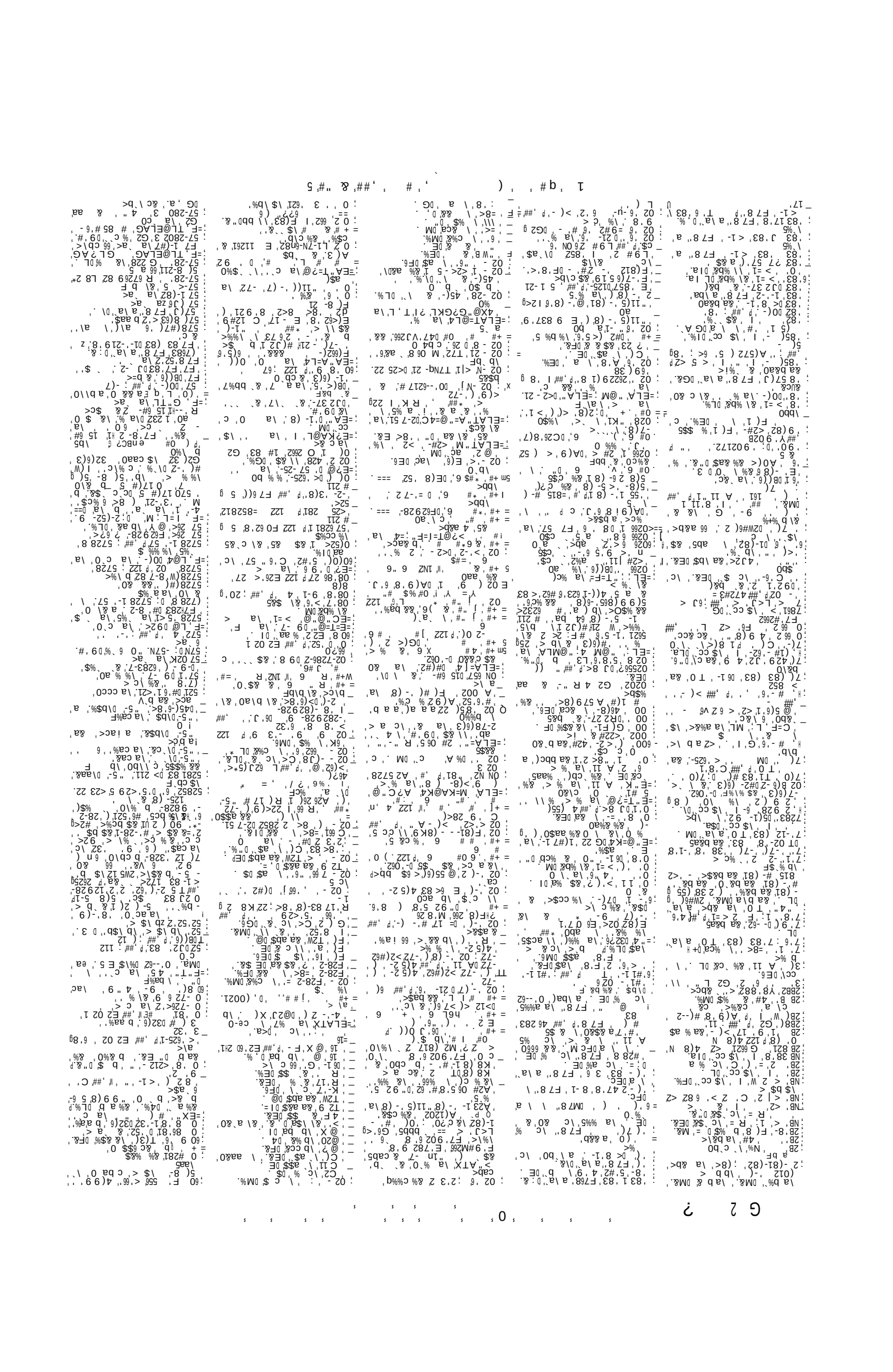

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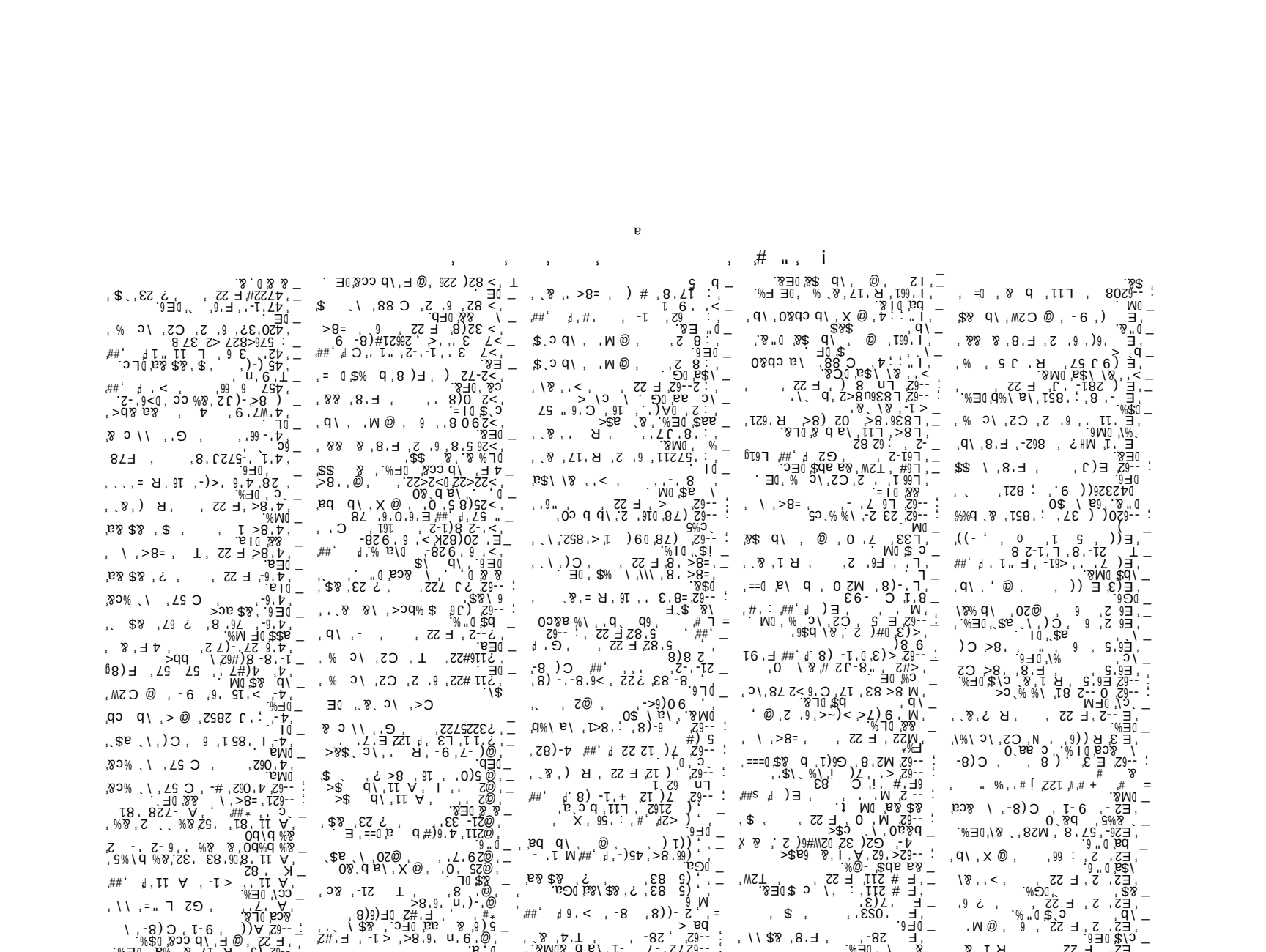

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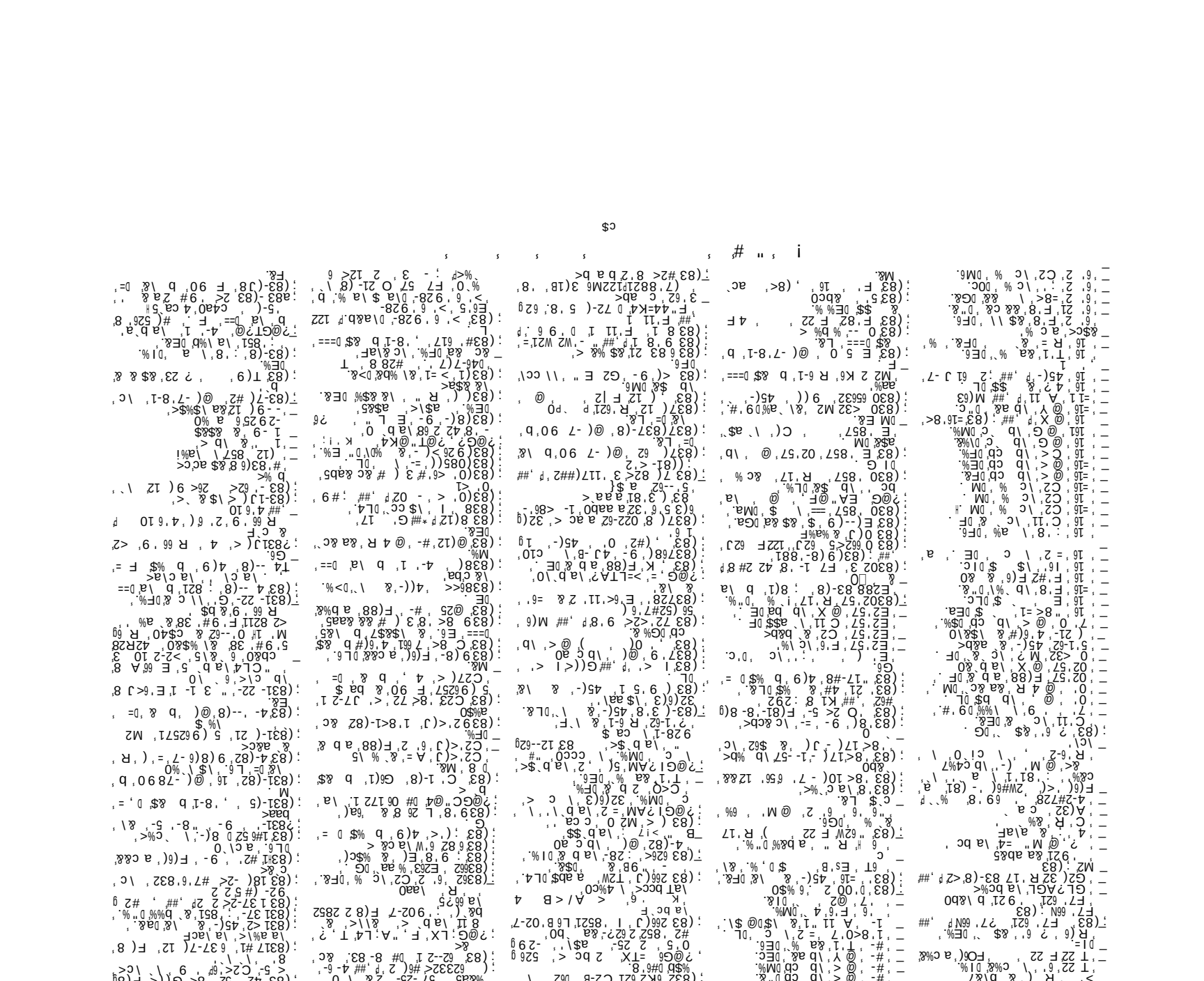

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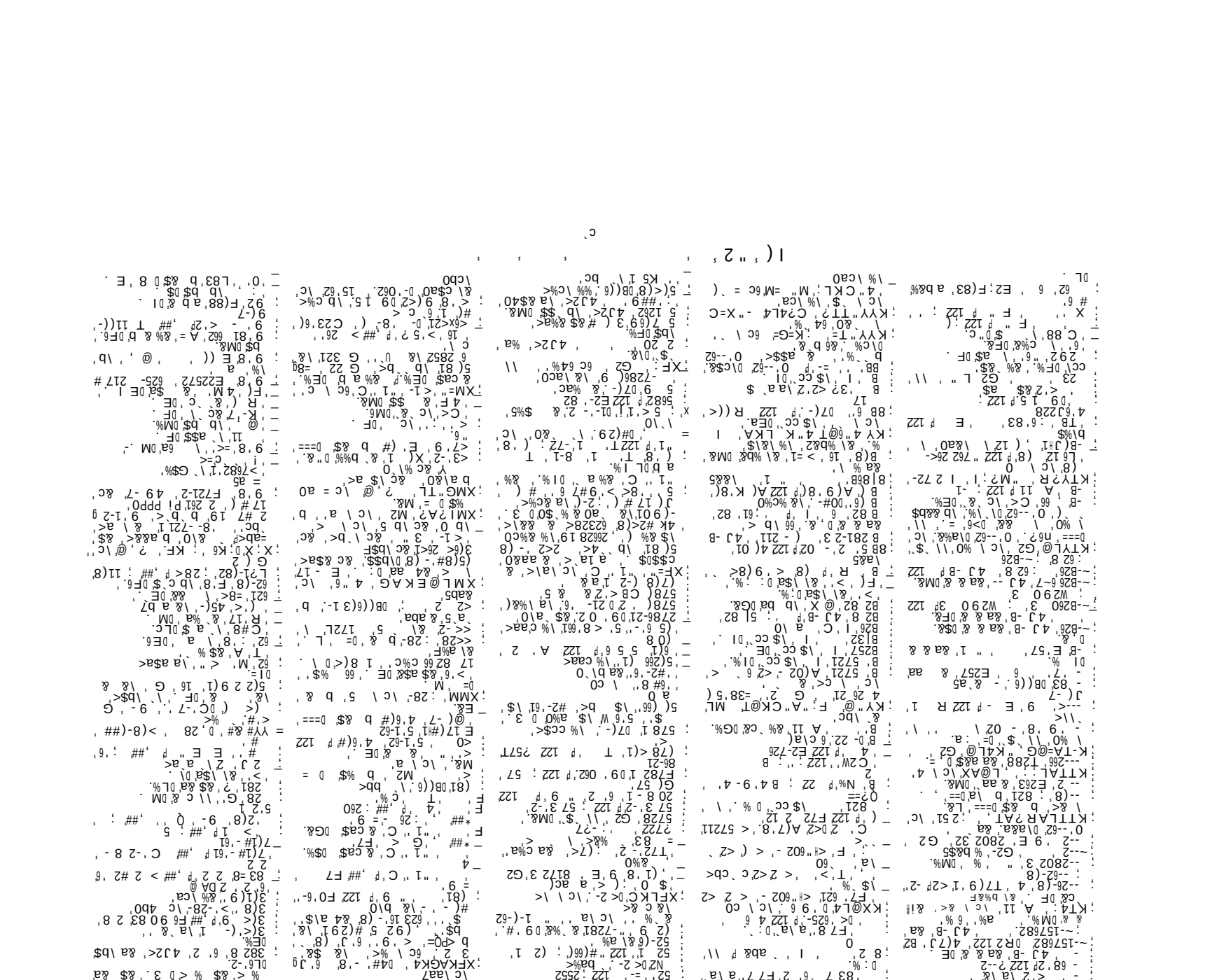

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&$ <` &\b`< `aC` ,`L`C`\c,
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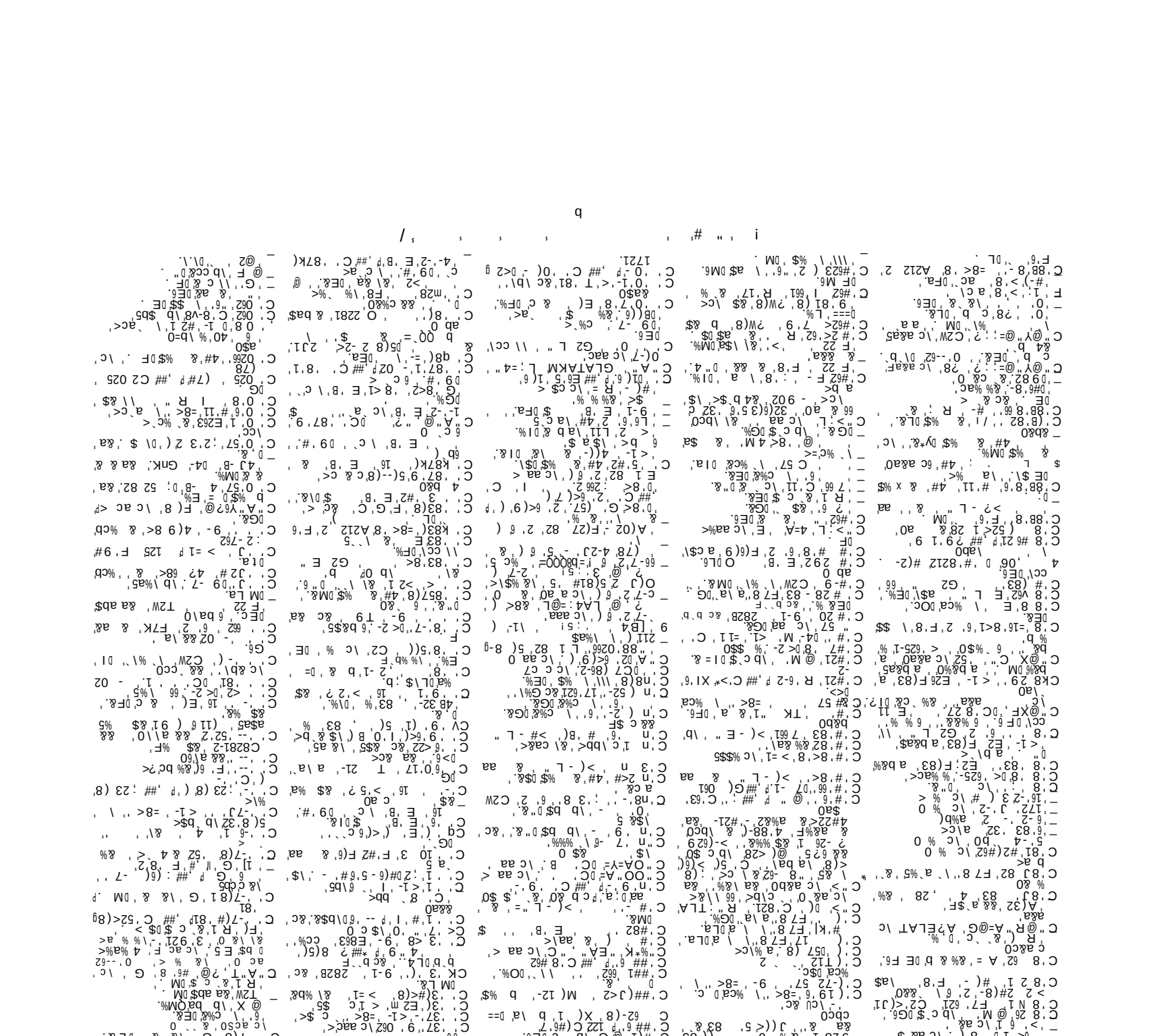

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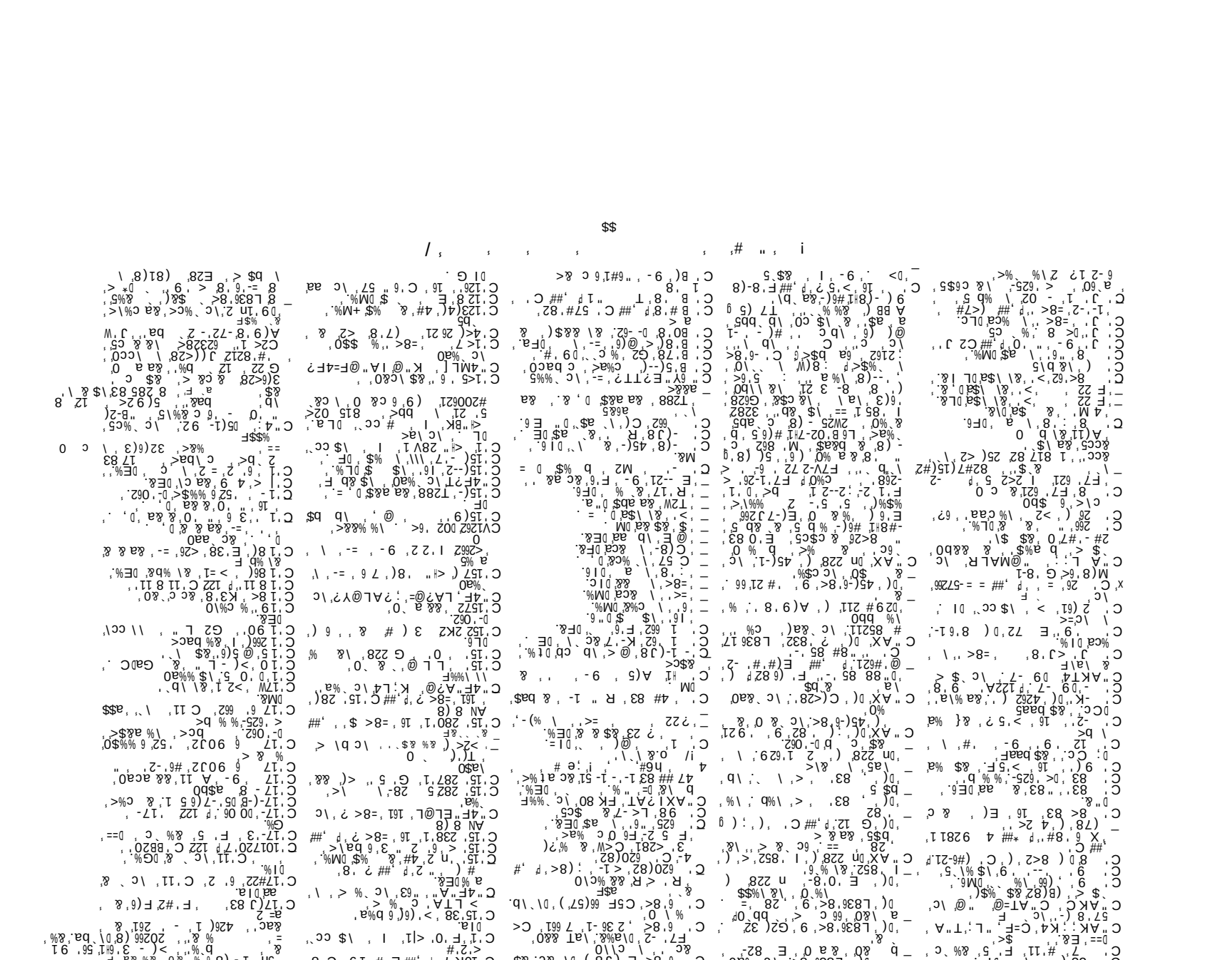

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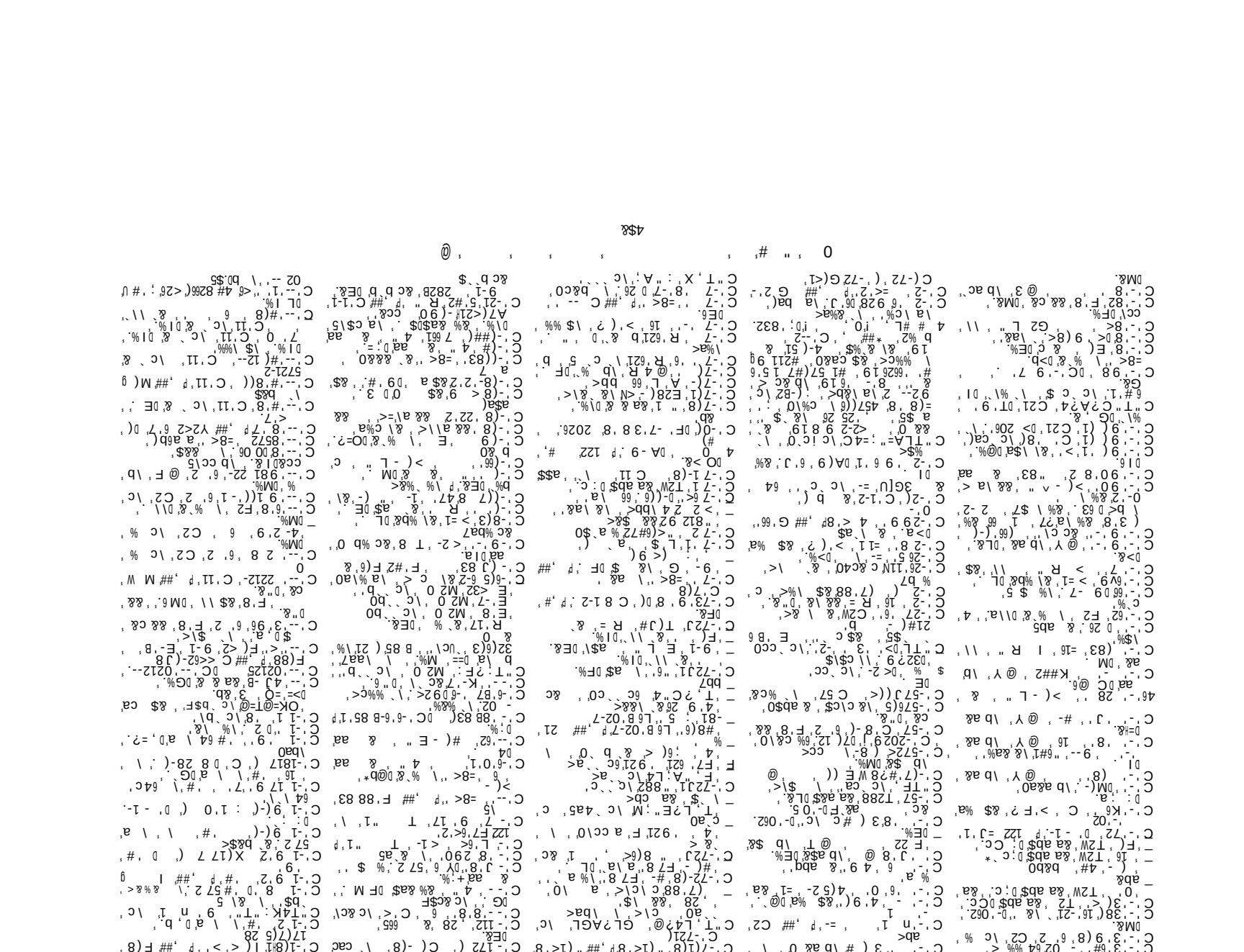

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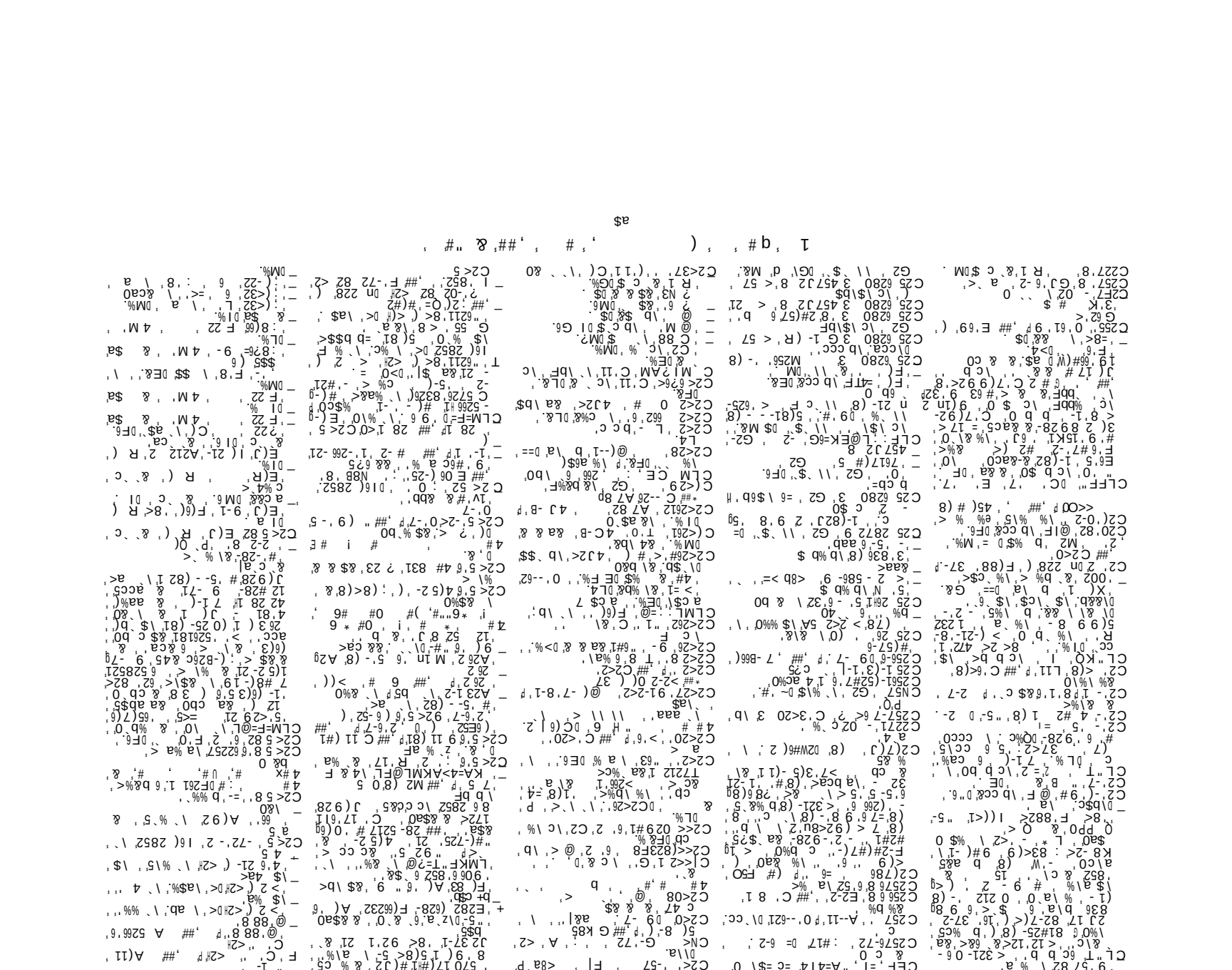

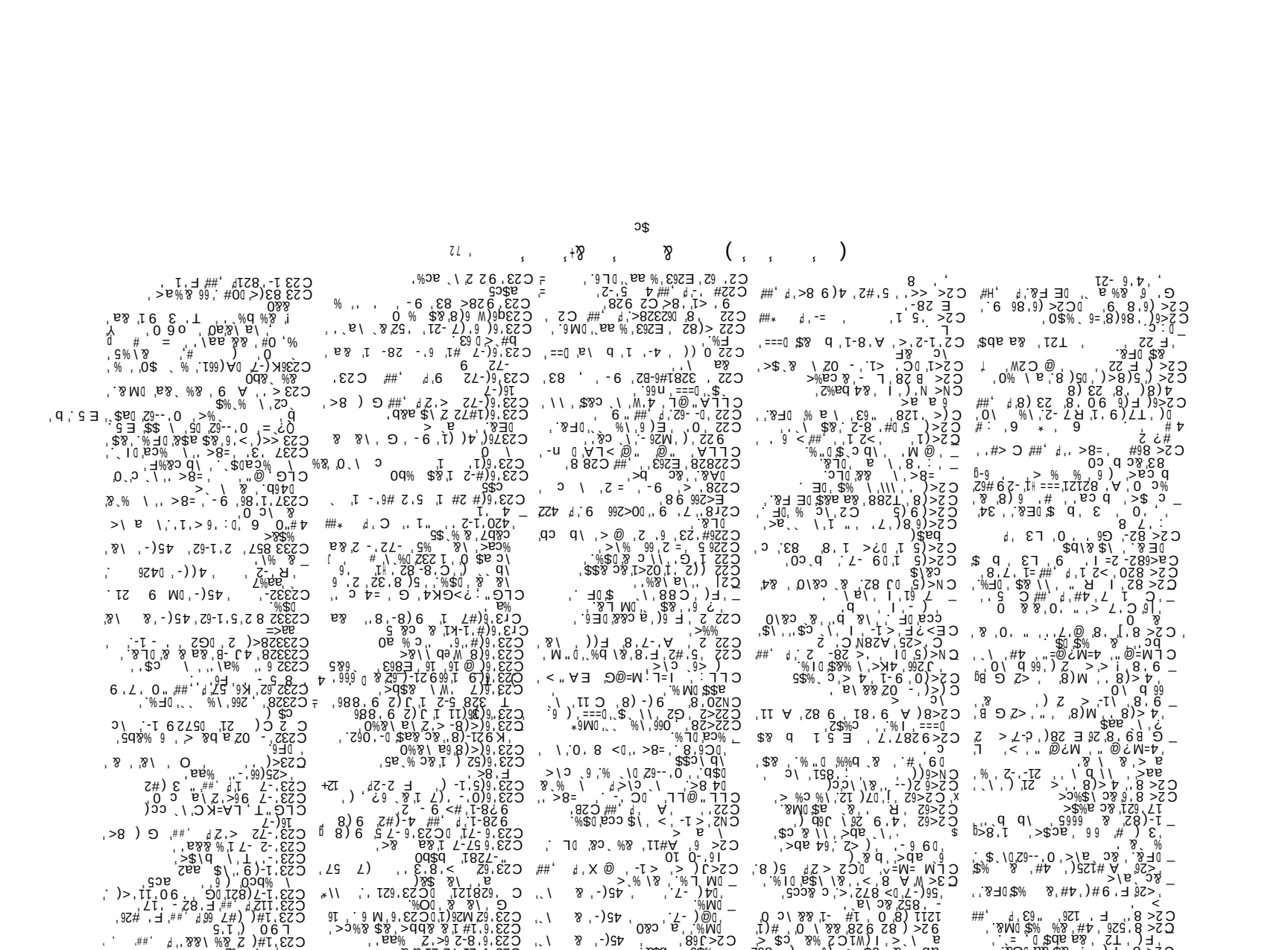

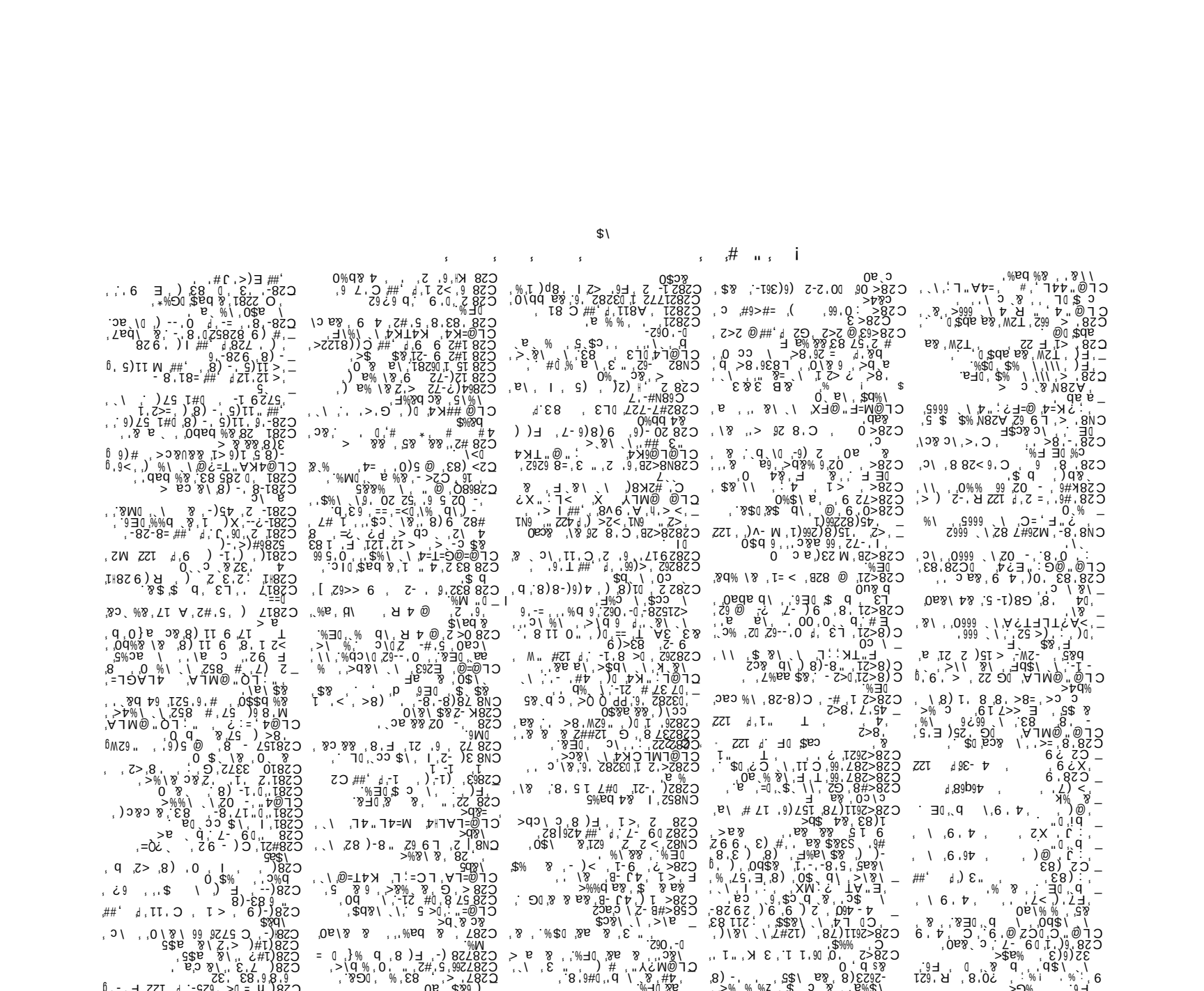

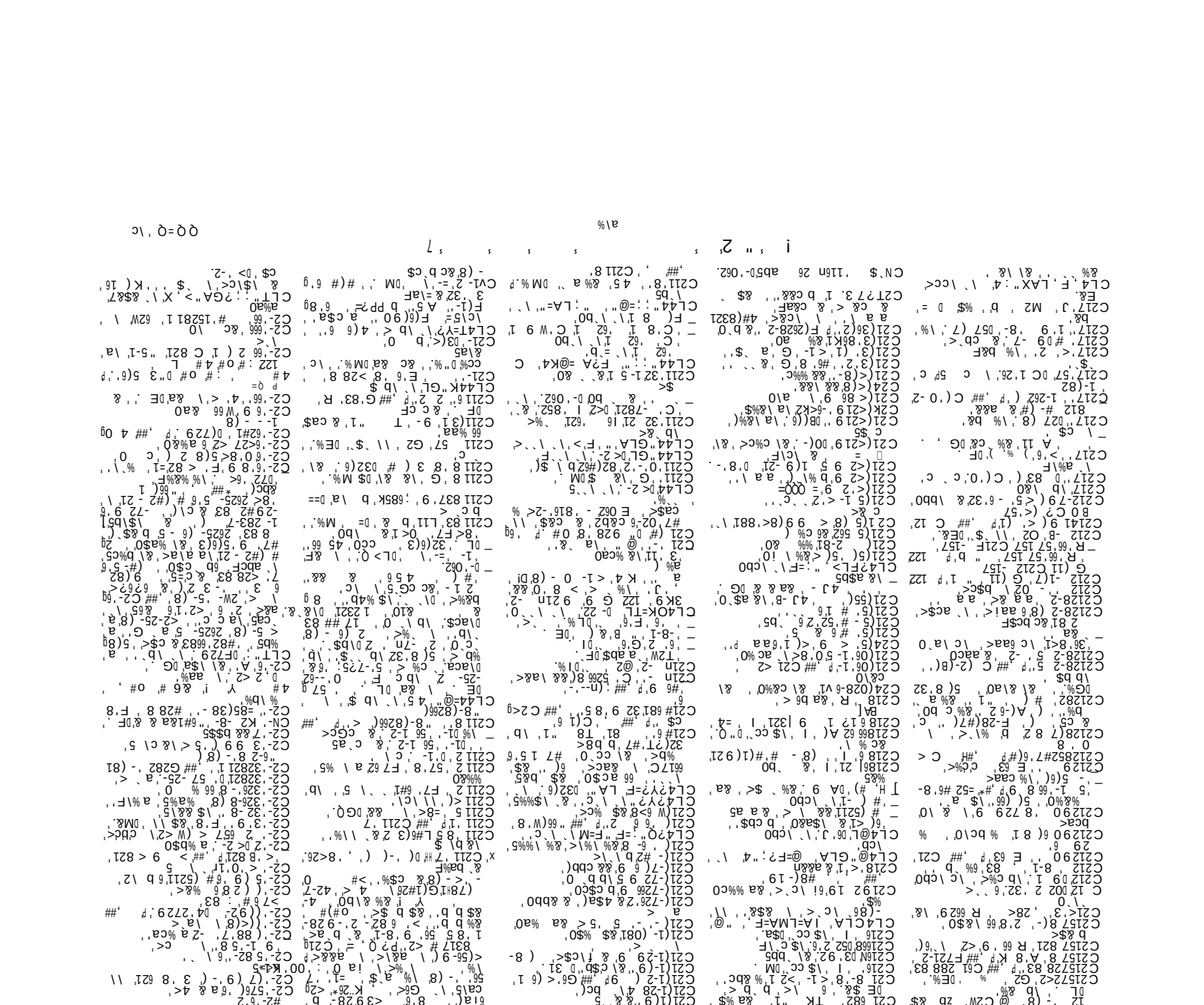

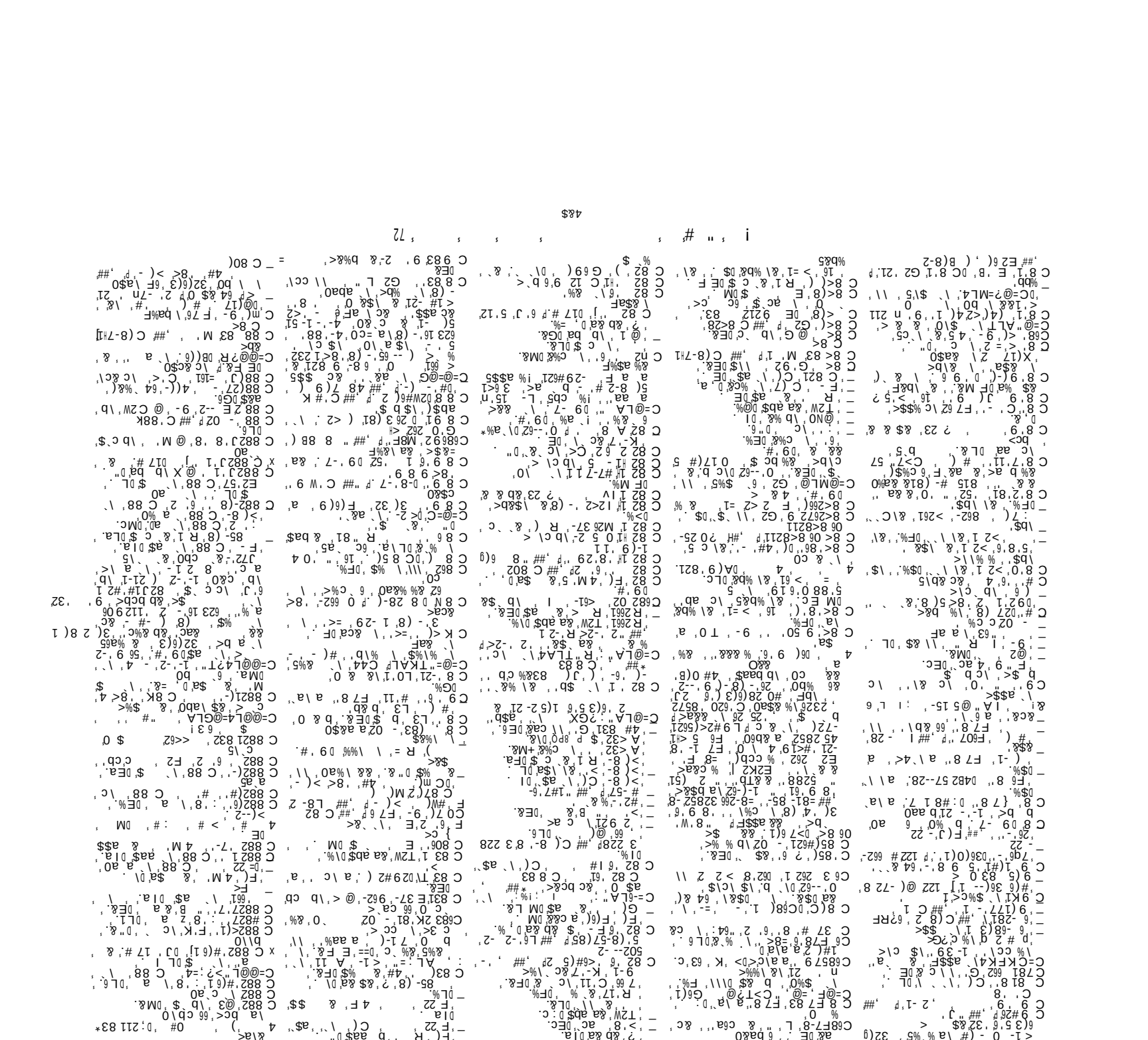

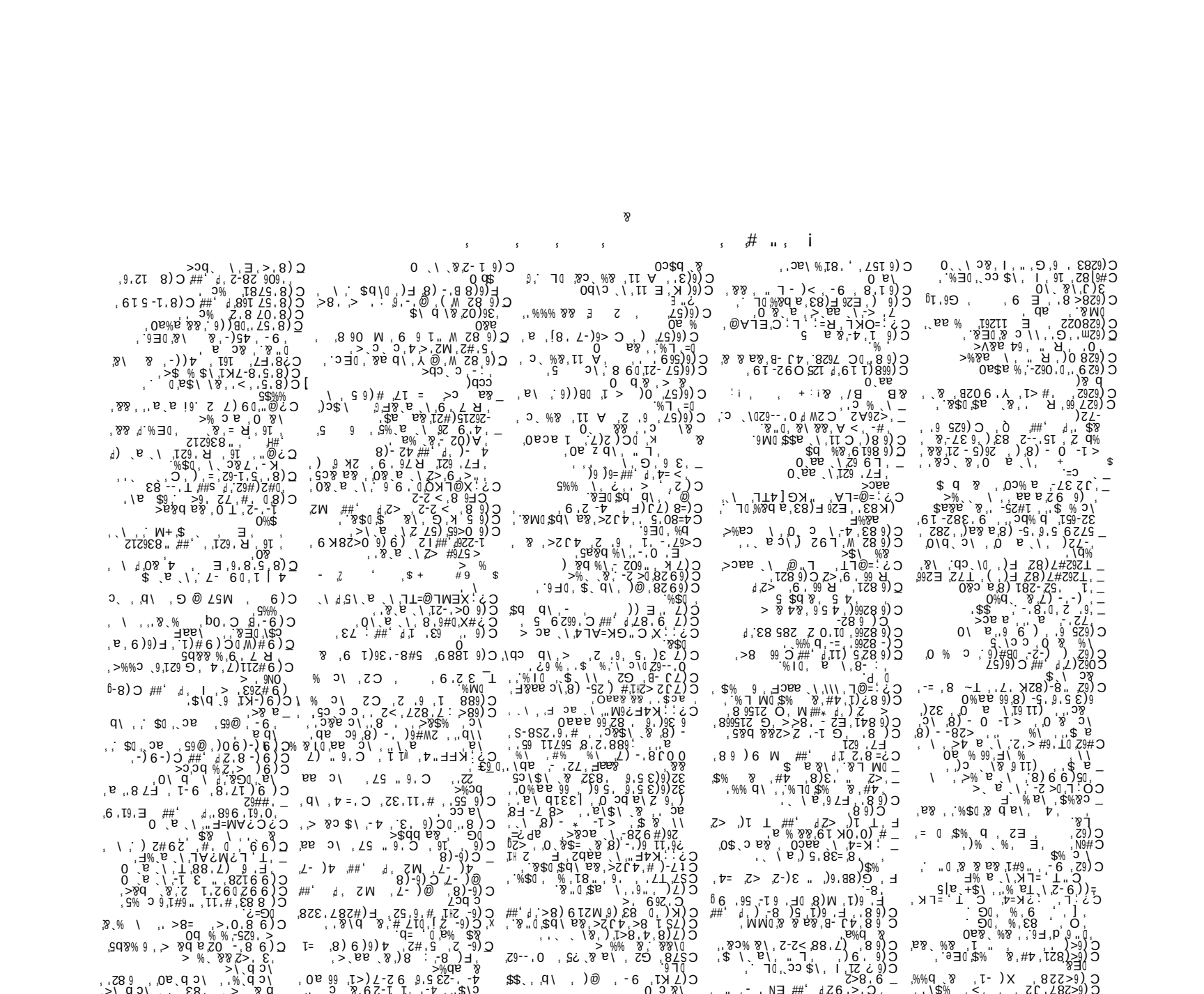

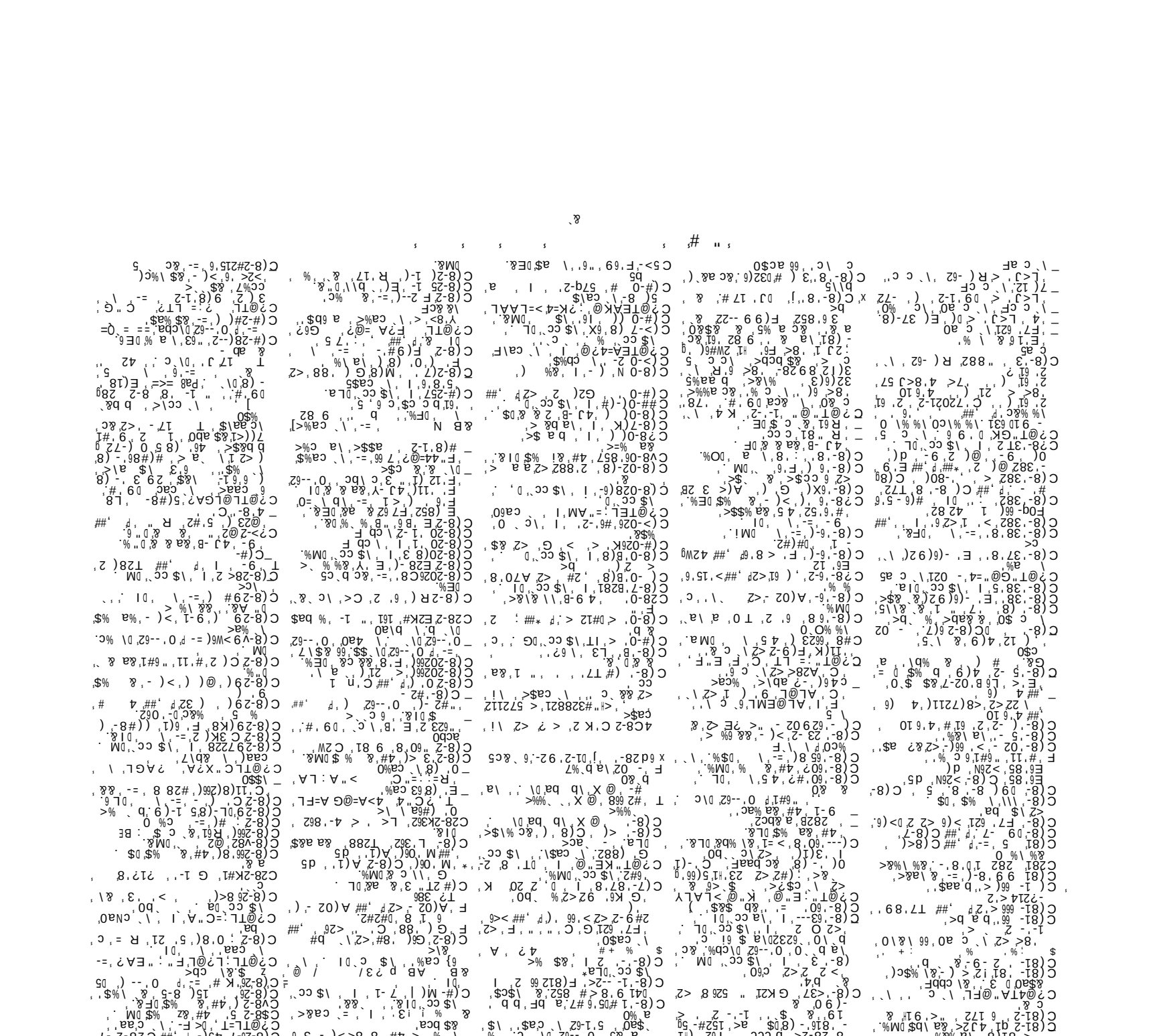

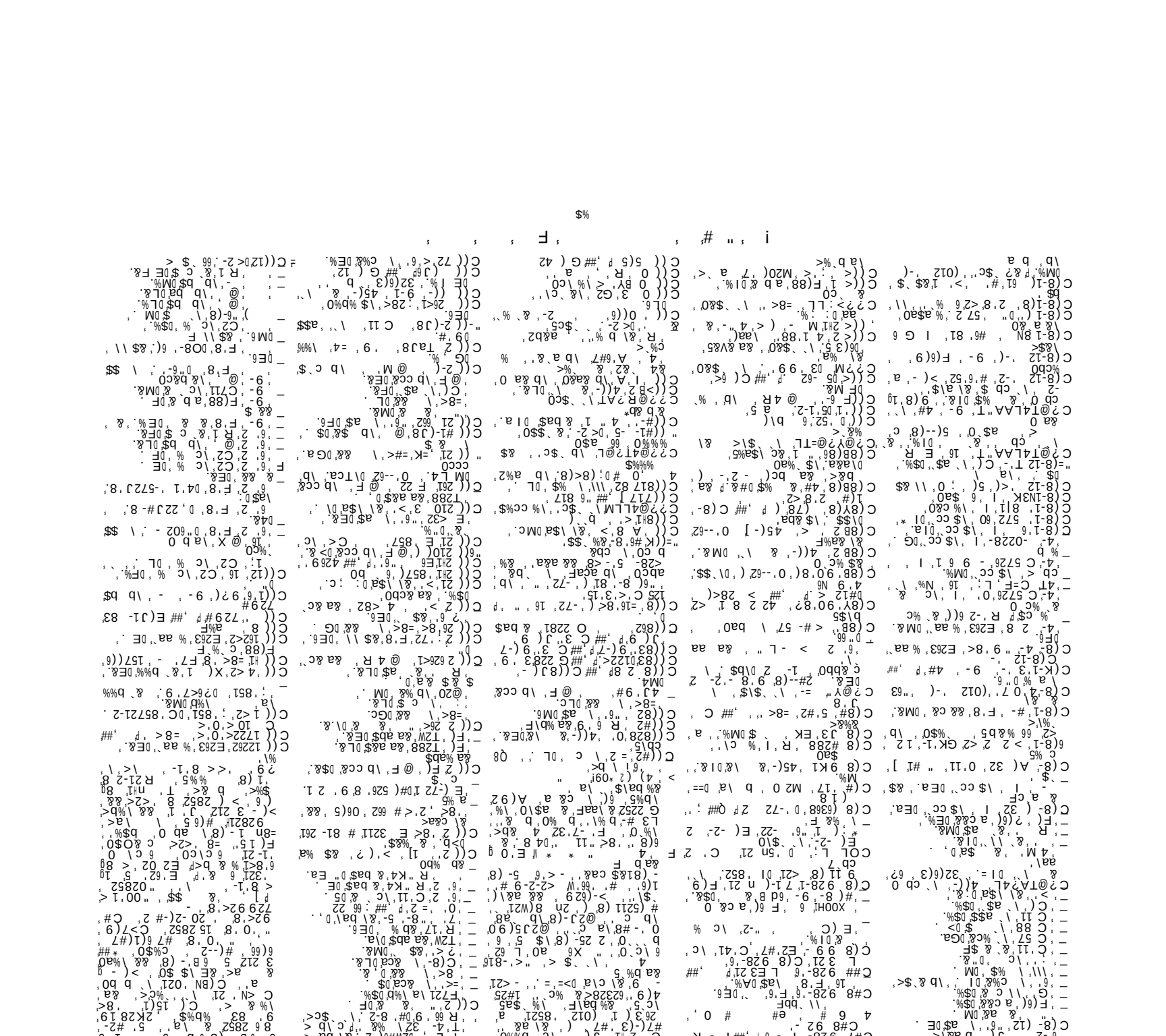

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&%`&a0'.&`,`&%8`&`
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C(12-(J8>`&\`&\$a`DE&.
C(1721?DE`1-(57 2`%`$$`
&$\a`<`-`2-`D\`&`
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a$a0`
C(172`G2 L"`\\`cc\'DF6.`
C(17&`&`c\$<
C(17`&`&`c`$M&.
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C(F22`-`D-`062
C(1727?DO`06`?`122C(12`
&`.K`?$`[`k`.
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0`&66`%`\0`,`5`66`$C`\`
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\\c5`L3`#-`8`623628<`
ba(3`3282`6(3`66`c<`=
q`\c`\bD`C`#<`2`8`
2-7`(`81-`5-1`\`%`bD`
9`-7(6`\c`a5`C<`
_`,`$`&$`&a`e=&`\.
_`6`3(8`\`C%&`D$%.`
_`&`,`\`DE&.
_`K`,`821`&`b%%`DE%.`
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`D`#.`
C(11`662`\\\`%$`(AE`
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C(11`5`22`G`\\`c`&`F6.`
C(11`G`(`2`"6`\`a$`DM`.`
C(11`((`?`R`17`&`%D$%`.`
C?24A`E`%9`\`b$&[`
C(1121#`4`(-`a0`%`5`<
C(121`R?K1`(`(`11`E3`
&a&&`
`b,A`#`.`#`i`\`bc`
C(12&`@`Y`\`b`&a`%a`
C(12`A`2`F`8`\b`%\DF&.`
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C(17`-`02`&\$a`D&%.`
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&`.K`?$`T!]&a`a0$`D:`
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q`\c`\bD`C`#<`2`8`
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_`6`3(8`\`C%&`D$%.`
_`&`,`\`DE&.
_`K`,`821`&`b%%`DE%.`
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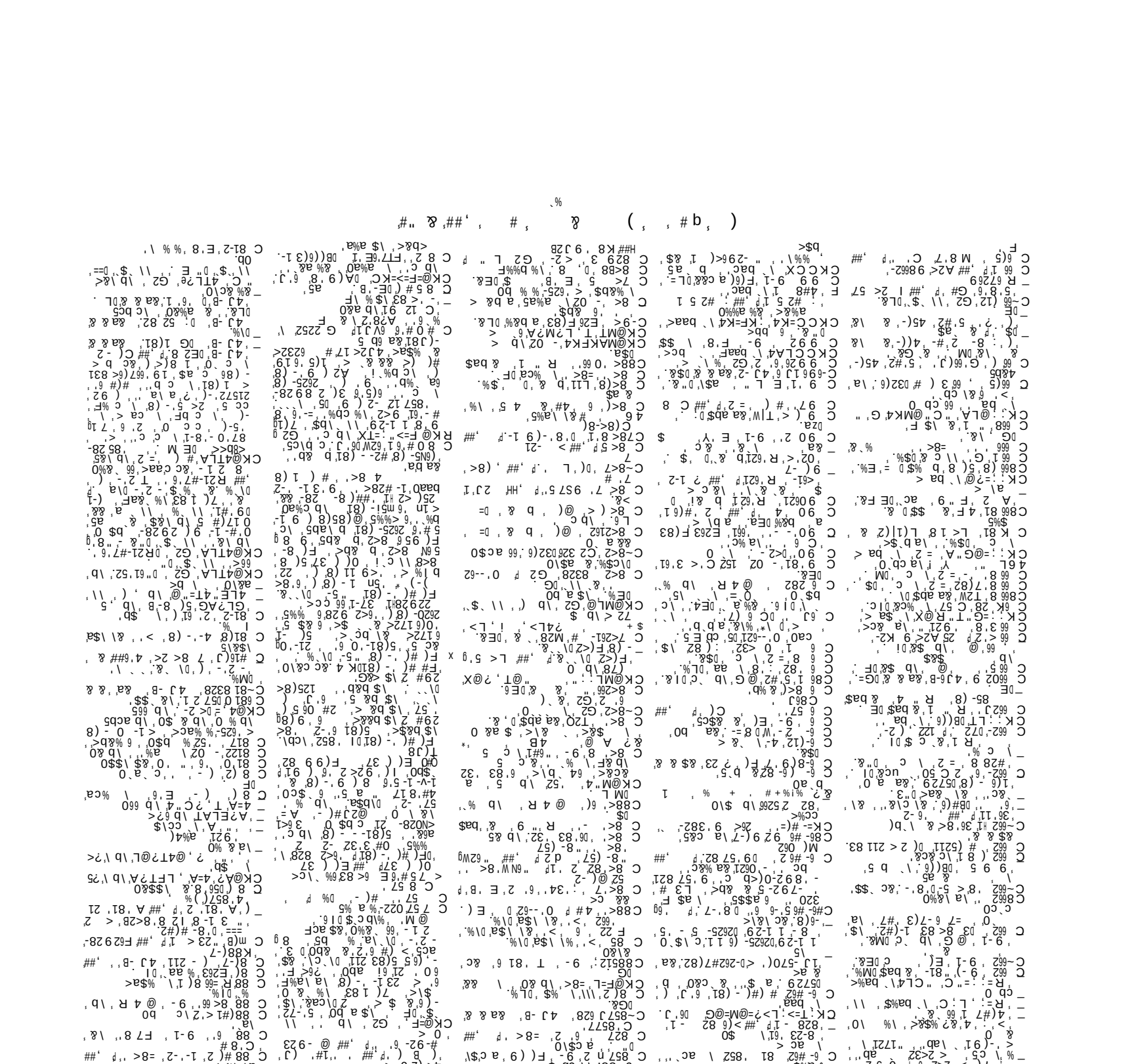
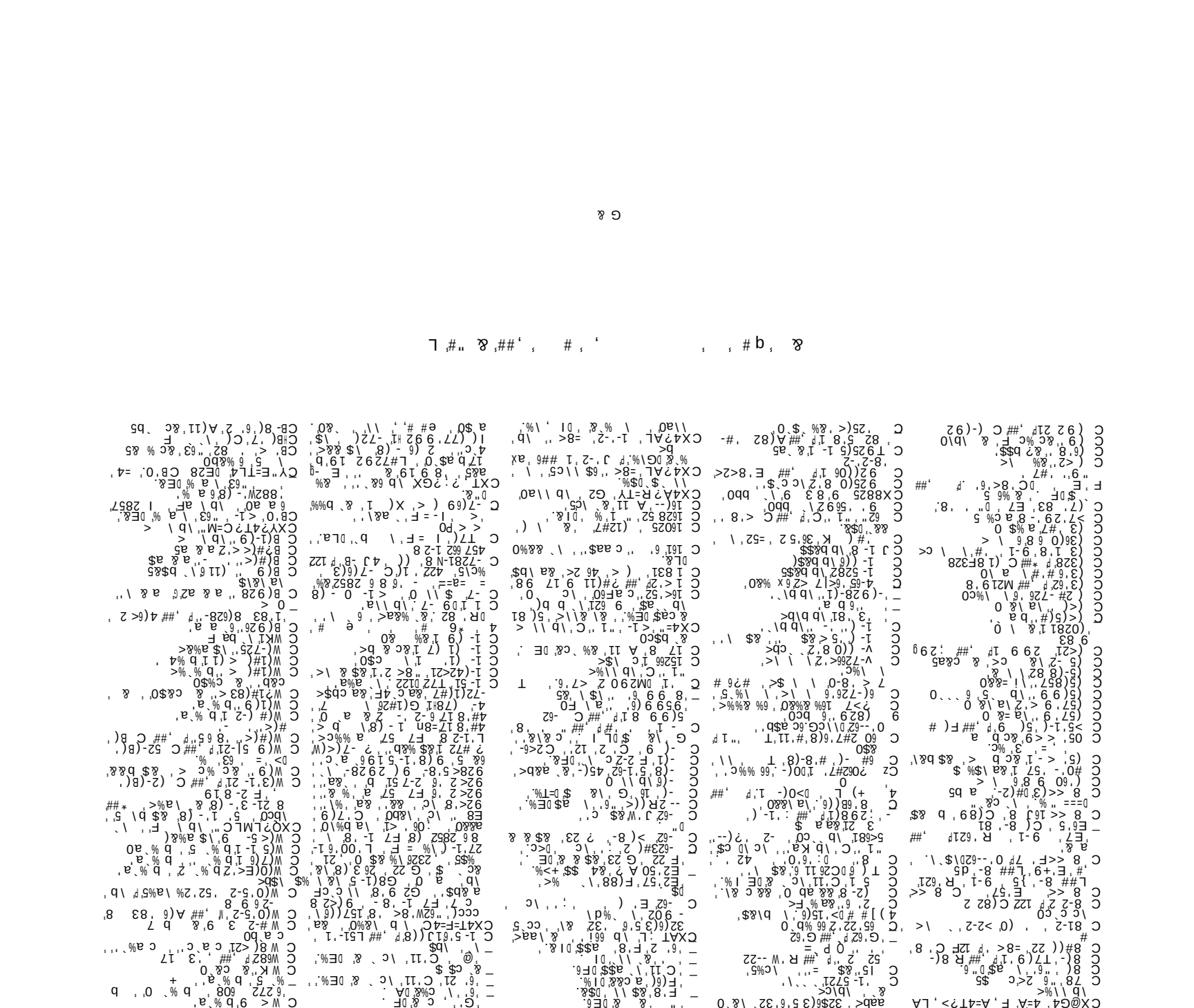
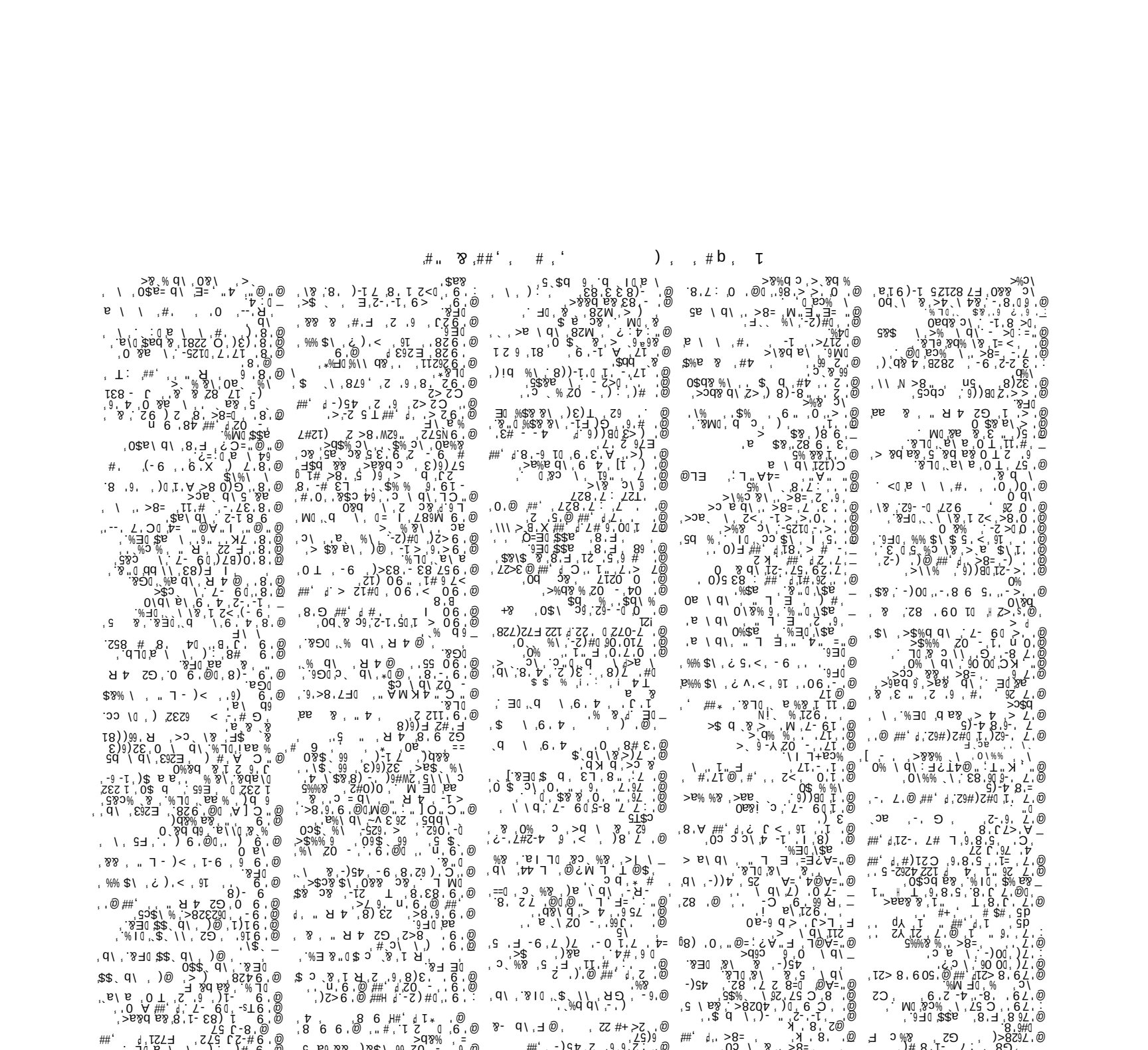
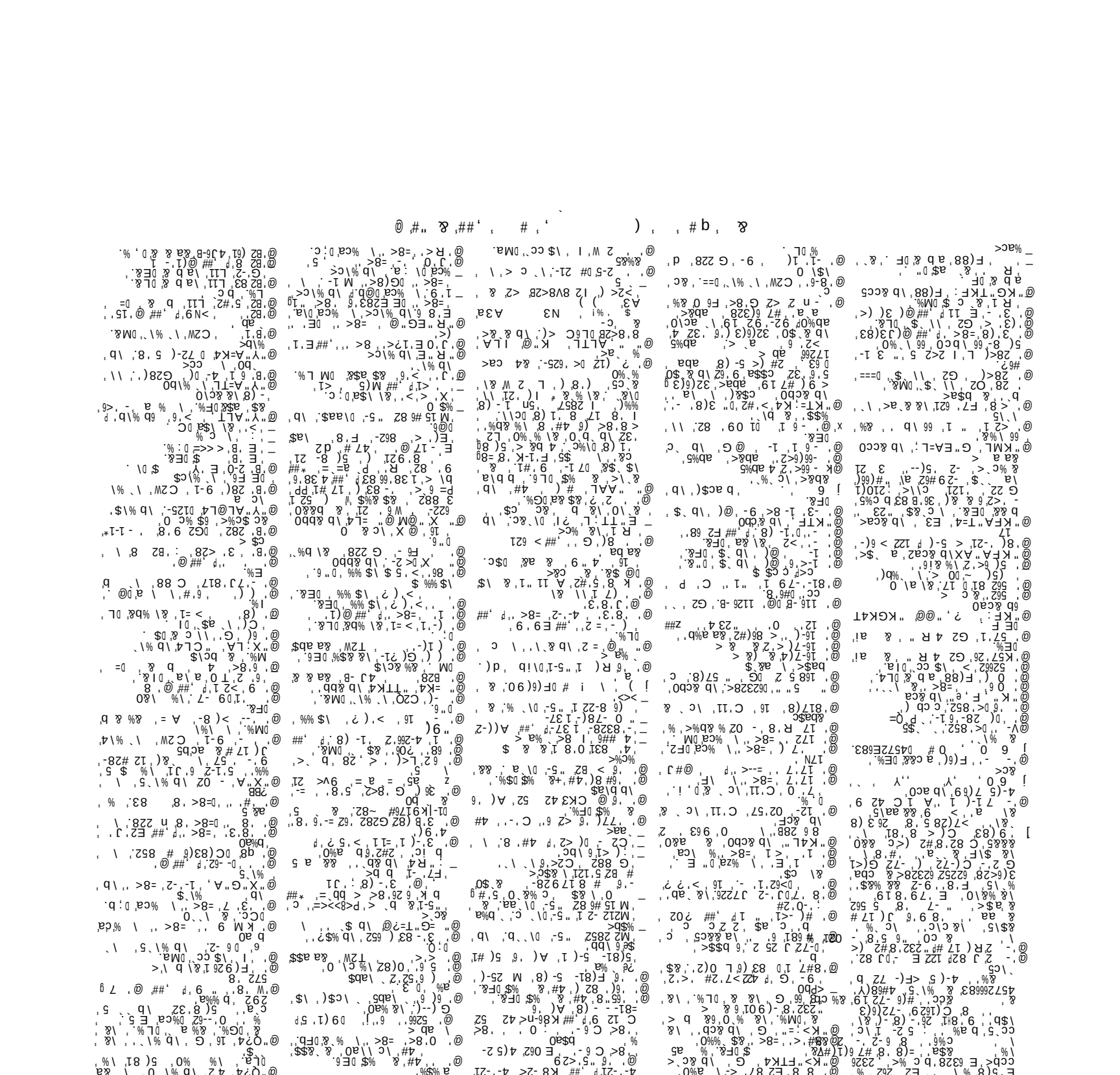




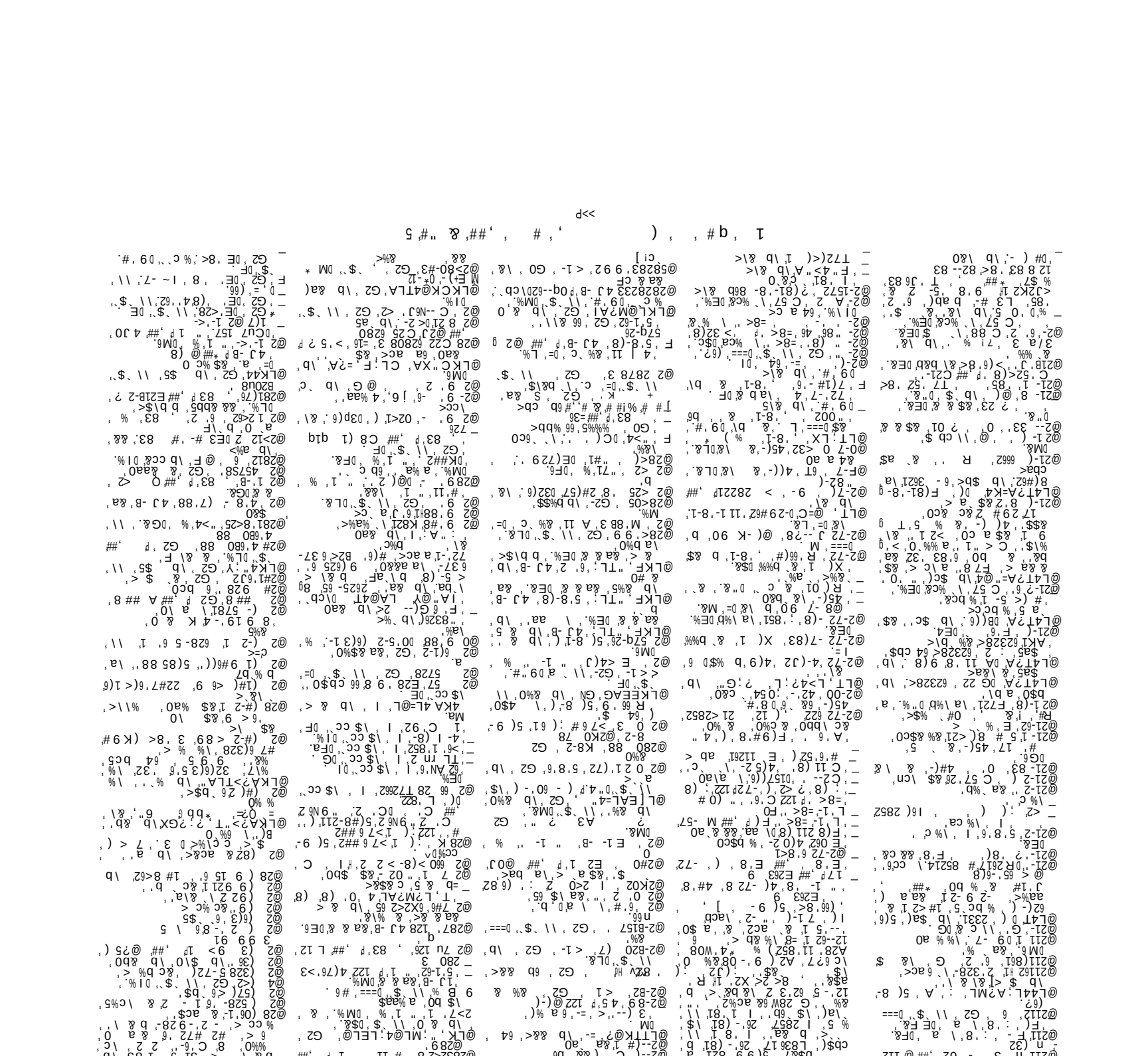




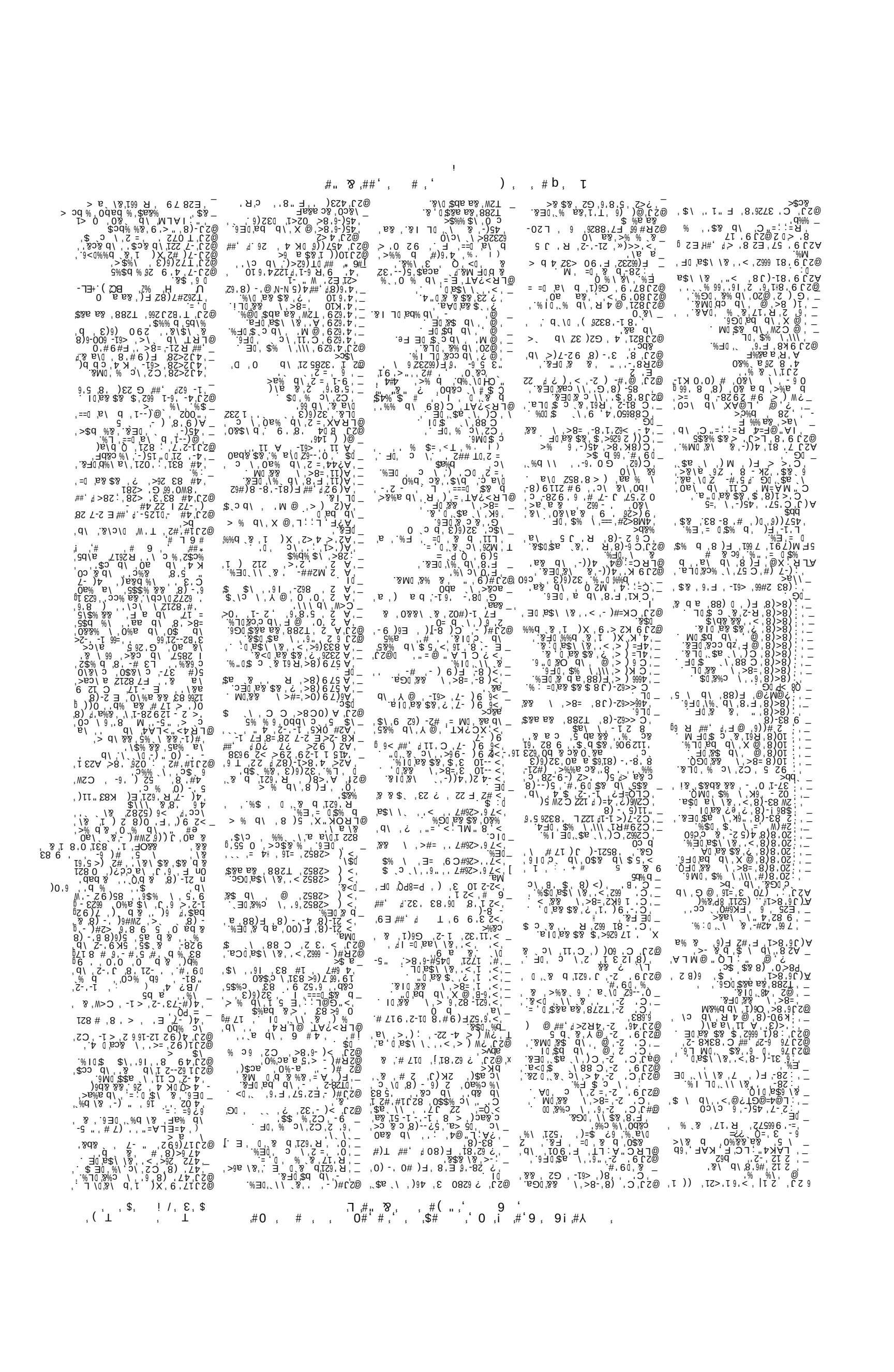
@"8 '8B28 'G 23(₣ ,## G 2g @2'#(61'T `\ c$\'(5c 8g @2'L3 'F ,## T72021
@N` `c< `\ 'I ,'' \$ cc' DM . ' @200 (`F(1'c &$$' @200 `b 666O @200 `b 666O
@ 2,D\729 'F ,## @2(8 @2027' @ 4 R 'b %`' DL&. @2027' @ 4 R 'b %`' DL&.
@ 9D-.-6Z. \b c\bO @2036' M28' &.' 0'%.' @2036' M28' &.' 0'%.'
@@ 9,<29&' \bb @2026 D 15 &.ca $ @2026 D 15 &.ca $
@2,'5,<29&' \bb @2025 M28 &.' -' @2025 M28 &.' -'
@@2,'16 "23 4 'l22 "4.-' @2024 T @ ₣ @2024 T @ ₣
@@2,'16 "23 4 'l22 "4.-' @2024 T @ ₣ @2024 T @ ₣
@@ L#` ,(1 G b a c5 @202 6'T @ =,' @202 6'T @ =,'
RL`G_' 6,'2,'= 2'b %)b< @202 6'T @ =,' @202 6'T @ =,'
\ z` ,DLB.`& a\F 0',--62' @207 8'- 02& &ac<' @207 8'- 02& &ac<'
)\a &.& \ (32)6(3 \ @20 (-#? 9.'57 8'- 2 ,&%' @20 (-#? 9.'57 8'- 2 ,&%'
@2k3?2 .DR '6.57 8'- 2 ,&%' C28-7(-# ===`₣ @207# ? C28-7(-# ===`₣
`&02' 57 5721 ( &<2<`c aO C831 \ ca $ -29#62 (`& %c=<`b `& -29#62 (`& %c=<`b `&
@ 2,'89282 `16 "23 4`₣ @2026`T @ ₣ `@'02 6' @2026`T @ ₣ `@'02 6'
@2'#`;`.92&2 `D`6 @2025`T @ ₣ `@'02 6' @2025`T @ ₣ `@'02 6'
@L`=`,'M"@=L';`\b %&$' @20 8 9 'l ,@2 21 @20 8 9 'l ,@2 21
) = @20 820 6 ba(@20`X 8 1`1-2₱ @ &2 27
_ %&$0 M"` =M M"`,`,?LI' \b @20(`\\\` %$ `DE @20(`\\\` %$ `DE
@L`"-L ,LMR"AM` "@4=T' &ab0D 6(`cD0' 2#-621 &ab0D 6( `cD0' 2#-621
_ `,'\b %&$0 DA @ c^ @20 2281 \b &a$ D @20 2281 \b &a$ D
- \ \ ,\a0 6 @2`,`,161 "61 \ c&D, ;' @2`,`,161 "61 \ c&D, ;'
_ ? ,@ C"47@' b %&$5 F 9`,`>'6,₱ ,`@20 F 9`,`>'6,₱ ,`@20
@@'BY',G2 \\ b D===`(6?. `R,'621b &'`,b &&'` ,`R,'621b &'`,b &&'`
@@'B,'8'F'82&& `c D==`MR. \\\ `1-`-2 %`\$`b>` = \\\ `1-`-2 %`\$`b>` =
_ & &&< ,`A2?8'<&& c $0 9-`K-'7&c `\%< @LE?`D9 -7.`\b %&&&( `% 9-`K-'7&c `\%< @LE?`D9 -7.`\b %&&&(`%
@@'6-(8 "662`@`F'b cc&'DF `D`%.' @20# 7`9`\ \a$'DE @20# 7`9`\ \a$'DE
@@'92`:`,`c `D`%.' DM `&`&`DM @2'`,`,`c `D`%.' DM `&`&`DM
@@'61 662`@`F'b cc&'DF `D`%.' @2'`,`,`c `D`%.' DM `&`&`DM
E6.`C&B26'`G `\&`&`DM @2'`,`,`c `D`%.' DM `&`&`DM
@L"C-YK A 9`\b %&%<`&% @20 `1 ,`,`,`$ &'DE=`#6?` @20 `1 ,`,`,`$ &'DE=`#6?`
_ <2#-` A 9`&% `&a'DF6.₱ &a D"6. ,`Q `>`5 $ \$ %%`DA&. &a D"6. ,`Q `>`5 $ \$ %%`DA&.
_ \b %&$< ,`k ,` ,` ,`82 G2 ,` ,`k ,` ,` ,`82 G2 ,`
?`"@@' "GGK4T R=;` @2`\b %&'` \ `$`,`6`,`ba0 @2`\b %&'` \ `$`,`6`,`ba0
_ 72 9'\b %&'` \b %&'` \b
%&$<` ,`k ,` ,` ,`82 G2 ,`
\b %&%<`\ \\ `$`,`6`,`ba0 @2`\b %&'` \ `$`,`6`,`ba0
@2,'2,'16 "23 4`122 "4.-' @2`\b %&'` \ `$`,`6`,`ba0 @2`\b %&'` \ `$`,`6`,`ba0
@@'B,'8'F'82&& `c D==`MR. @2`\b %&'` \ `$`,`6`,`ba0 @2`\b %&'` \ `$`,`6`,`ba0
@@'61 662`@`F'b cc&'DF `D`%.' @2`\b %&'` \ `$`,`6`,`ba0 @2`\b %&'` \ `$`,`6`,`ba0
@@'92`:`,`c `D`%.' DM `&`&`DM @2`\b %&'` \ `$`,`6`,`ba0 @2`\b %&'` \ `$`,`6`,`ba0
@2'`,`,`c `D`%.' DM `&`&`DM

@23 -- 2 9 902 \b ` (_ '# 215 -8' (8 06' ! 52\ && acS' ,' & ,' 9 , \ ' \%% D 9 #, ' 8 ' \%% 4 (-7' #- ' 8 ' \ \%% _ D 666(21D 52\ && acS' ,' & ,' 9 , \ ' \%% D 9 #, ' 8 ' \%% @23 666(21D 52\ && acS' ,' & ,' 9 , \ ' \%% D 9 #, ' 8 ' \%% @LG"&@LL C 57' \b & 85 \ %C D%%. @2320 -(<1- >'6' && a&& DE $a. && a&&< @232 \ &< ' #' > 7 & ## #21' &\ ' && ac (6' \ 321 aa DE& %. @23 (0 -\ 521' \b % ']' F 6T W ' 8< G -' ,## C2W' F ' @ 2' 3 && aa DL& ' , ' K 3 & aa DL& ' ac' _ '$ < 28 2B \c aac0 %&a' &%\$$aO' 60 8 19 \ $5\ \$0 ' 852\1- J (17 # 6 b c0 ' 8 E 8 6 c0' 7 ' \& &%0 ' 8 9q 3 '321 \b % a0 \b a%a<' %a(- 2 J 7 && \ aO' 1 @@ - 2 \ 32 && ac ' D%% ' 8< v 90 '1' 9 W 9 9' -72 9 (9 2 2 ' aa %a' C' '1722# \ \a ' 4 "1 & ba$ DM%' @LGA=" M "\b % %5 @23 N 9 ' 4# & %$ D"6. @23 2#26 112 I ' \$ cc\ DE @13 2#215 A 9 &% &a D F6. @23 2-2' 8 #2' C(' && F' 6' 1- -2 9 #62 @23 -(A(8< ac ' D$% ' @23 2 (6' \ C6 " 27' \c ' $& 6 ' 9 ' C ' 6 ' 9 ' 6 ' 9 ' 6 ' 9

@29 ' 161 E'(&$ %a @2 ' 17 2J @29-2,2' 2-20';D9 -7 ,' a' @2(9 1(L- 62#6 9'32' &&
@28 1' 16'C'6 &'57 \C aa' @28-(8 27-,' ac' D'%,' @L?;=T &\abD @2(57(6'G'\& & 'DL6. @L??7?C=" @'D32(6'\b %c&', @2(928 <'2 a & &<#' a & @2(928 <'2 a & &<#' a & @2(928 <'2 a & &<#' a &



@2J08 17' ,#2I'E'L'<56 62' @2J5Z-1-62' 4" ,& aa' D\a.' @2J'F28- 'F'63 ,#O'- #2' ?T-2 &c a&& DM? \B &' , E(2' (55 #'-(8'
F '9#02&&-(8' F'8' \b 44f @2J'F28-2 K62 >'' &\ \$a' F-'1'P 122 @2J-1-62 4 ,\%'D \B DD;\b &&kF ?T-2 &c a&& DM?
_ cb _ F'90 <32' 4(52- F(88 _ F'8' \b 44f @2J'F28-2 K62 >'' &\ \$a' F-'1'P 122 @2J-1-62 4 ,\%'D \B DD;\b &&kF ?T-2 &c a&& DM?
%2J08 17' ,#2I'E'L'<56 62' @2J5Z-1-62' 4" ,& aa' D\a.' @2J'F28- 'F'63 ,#O'- #2' ?T-2 &c a&& DM?
F '9#02&&-(8' F'8' \b 44f @2J'F28-2 K62 >'' &\ \$a' F-'1'P 122 @2J-1-62 4 ,\%'D \B DD;\b &&kF ?T-2 &c a&& DM?
_ D>'6 cb _ F'90 <32' 4(52- F(88 _

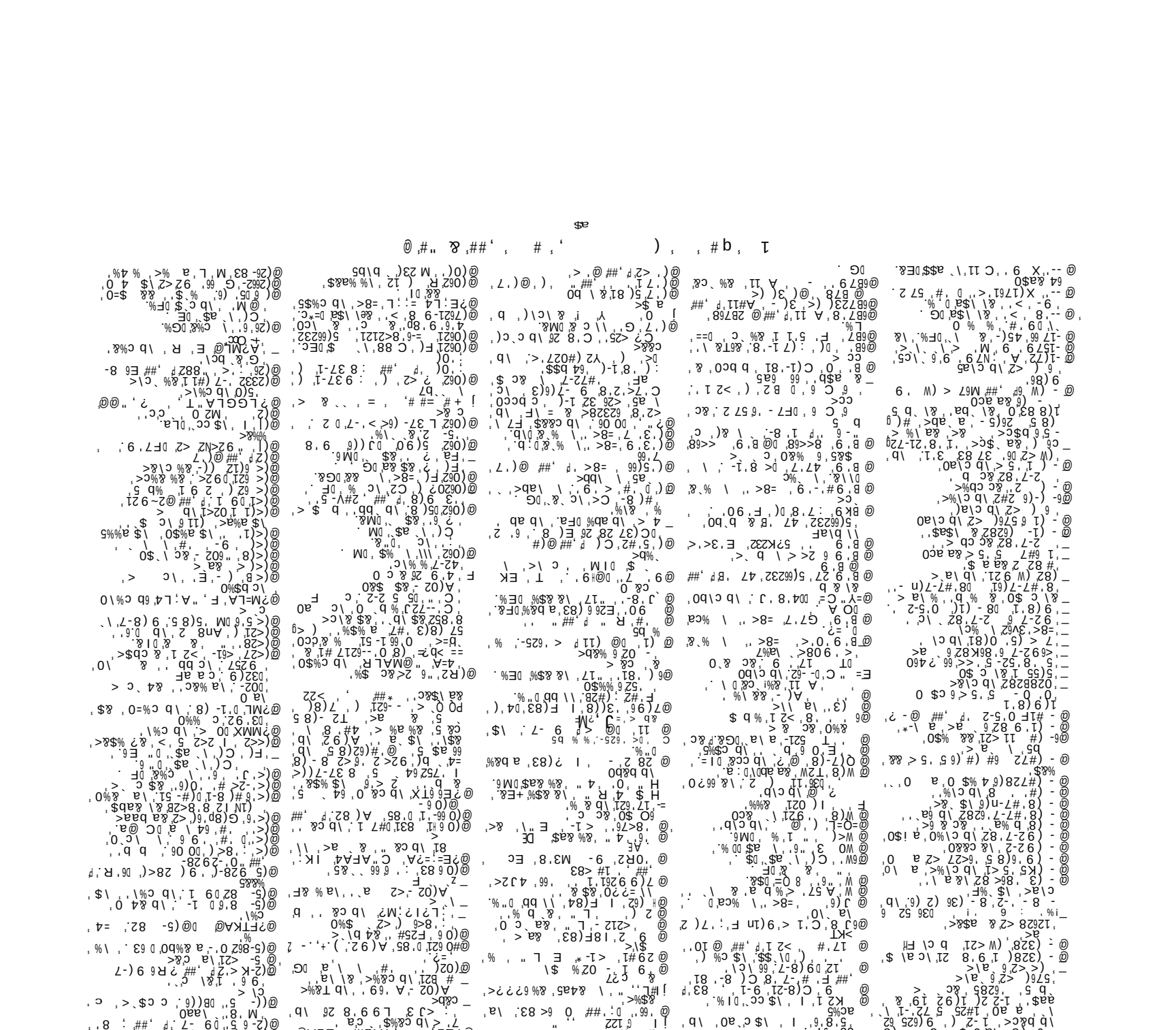


@LRT?@' 4=A' F ,"A:L4 ,2J-(8' >(##56(<' # 'b ,@2J'R'-2 '#'11'" 6B'& ,'&B'& ,@2J'Y2'6'8<'47##83'F(9g
T7G9'! \b ,%5' F$8%= !&' 9 8g'6 a b a' &C \$&'z' 9 '6- 2-2 R Y#' 4 '\& %60' >'(52< (2&b $\0 <
_ 1(6- ,2 \<c&O @J(-8 E9 ' =2' \ c -(1 D\'a%' \b a&c%0' 2J-(8i' 1 062 92- '6' \\ 2-2 R Y#' 4 '\& %60' >'(52< (2&b $\0 <
_ '4=A'=4"=F \b ~'%' ,& ' -(!' D&L @2R' E=2 ' \ c ' c$b5 4- 21 8-& \$ O 'f!#" \b a$\' 57&6<' (32 \$a%0' 2#!5(- $O 2-2(-(1 b 'c\<' - (32 \$a%0' 2#!5(- $O 2-2(-(1
_ \\CO ' F=A@(9 9%8 8' = 2' \ c ' == 6n (' 9 ,J1' O?=F \a' 3 - 2 16' 2 ' 6'R' D\' $. %$ b'$<n ,J'66'8a'b<' #(6%2' C& $ c' 3 ,
_ ,"EE71' M2 ' b0 b%0,b' ,& ' 7 66'C'11'&' &&F F ' 5 - 8' 9 (8' & ' 1 ,& ' 831' 4-'-1-5t && \b&<6 # 06'5 b'$ %' \ 9 2

@3'-65' 11 >'(?' &$ %a' @ '92 428'8<@ 3'\\ &$ '
DL_ (8'- 02'&c %c'\D\ DG%. @="-'C' DY'8<27' '52'
@3' 'E L "6' a$\'+E%. \b a%(<' a b& <' 6 %&b5
@7'66' 2-' &' %' D"&. D-'062' 5'88'0 619'
@7'T '83' "88'9'## : 7'8' _ \b 5'8(8[' (\b%<' 5 22<'<'2 '## @ 2'9'5'a %'$0'
@7'66' 2-' &' %' D"&. D5'82 <2'75(82112[' 25(3g
@ '9' 0(6' #'11'T 0'a \a' D$%. 8 B2<' c' c' 8 902 (
@ '1' 0 a' D"' 1-(-62' 4 6K< \b ac F L'20 1' b b <26?'-21' c' \' 0'

@ 5(- '8'-'0'(9ᵖ,'##'6 c a< g
@ 25&'#- ;'b `< @ 3 8 '8--2 #'7
@<< ' 9-1 4'<'\ 'DE @ 2<2 ' 21- R ",'a $'
@ 5(- 9 82 \b aaaO @ 23 (25' 9- ' ,K83' % ' @ < 2 4((-`  b  `<'a $%b(
@=F?1=@L \b aa <' ,' @ 23 17'C(8-28' ` cac' D ".&.' @ 5(- 8 5' '5 <' && ab\',\b'
@ 2<2 ' .(J2 @ 2 1' G2 '% @=L' ,"A'.' ,L4',L@AX @ 2<2 ' 2- G2 ᵖ @ 2 J27 7# 1' 1' M(926'' \ ' @ 2 J2 M22#'(728 ' ,(66'\\ ' @ 2 J2 M22#'(728 ' ,(66'\\ ' @ 2 J2 M22#'(728 ' ,(66'\\

@=;L E"TT:L'?1'T'L'\b @ 9862 ;3'8'&c- c' DE6. @ 83 -(';F78"0Q'D':. .
abbO'\% aa'<'9?<'6'\'O @ 8?- C~2E?57,R "81'&' @ 83 -F78'a'\a'D:. .
@ 9-'&\O @ 8?- C~2E?57,R "81'&' @ 83 -F78'a'\a'D:. .
@ 9'-68'D<?-'\ )b'' @ 8?- C~2E?57,R "81'&' @ 83 -F78'a'\a'D:. .
@ 9'1-68'D<?-'\ )b'' @ 8?- C~2E?57,R "81'&' @ 83 -F78'a'\a'D:. .
<$\< @ 8?- C~2E?57,R "81'&' @ 83 -F78'a'\a'D:. .
@ 9'-'i'125'\% \$O' @ 8?- C~2E?57,R "81'&' @ 83 -F78'a'\a'D:. .
@ 9'1'9-1'R" \\ &$



@(3(' ,O 2281' & ba$ @(6621296(' 6' 2' C2' \c % ' @(' ,' ,' ,' < 5'' @(2-72 'C ,66 %& ^O
@(3 6' 2' T O ,a \a' ,D1 &. ,DM%. @(3 g' 5(,E B, $%& ,$ %& ,D1 &. @?LTK4 -b C%&O' ,\ ' a'aF '
@(28W ,I \$ CC' ,D1 6. @(M2 ,>237 ,&a 'ba<' @(C ,D@2 2 -' ,L3 ,# $52211. ,9-1 >(-' ,& ,$' DE&. @(6@82#7 (1P ,## " 57 82? ,# 7' (1 ,D6' J ,# (1' D6' J ,# 122 @(662 # (12n ,<'2A'9K67'4#'& ,%$DE6. @>32 2 ,>'66' ,21'' ,- ,' 4# & ,$%$ D1 6' ,& %\%<' @(6- 83'\\\' \ ,%$,D$,& ,$$ @(6-6'8<'5'1-62'4(-',&$ &,$$ @(6 6' ,D02%6' a'D-'O62. @(9 '' D92< ,P ,## F' 8(-' 9' @(9 ,D F0 8'a \a'D1=' @(9 ,81 6'8<'<1-' 4 ' ,& 8' @(9 ,81 6'8<'<61-' F' ,#2' F(6 @(9 ,81 6'8<'<61-' F' ,#2' F(6 @(9 ,81 6'8<'<61-' F' ,#2' F(6

@?AT_"C>T?@' L'6I' '8< C'n 2112I (\'b CG <
_ caa'' \%'_%@ \'C ' %O
_ ,, 3 1-' 4 F'& $$ DF%.
_ ,, ( ) =< \ %$ DM8.
_ ,, 2 ' F 22 ' R ⁄ =8 \ '
_ c%@ DL%.
_ ca 9(8'<2' 428<I'2' 6 ('\b'
_ 4#2852 F(9#-(8'&8<2'6
@(-7'J '2 -1'\a b @' DM&'
_ $<
_ E'6- 9 (2'?'$8 &a DF&.
_ E'8 1'8<0'8 %-(- & '
_ \@ DE
_ E'8 1'8 @ &%< ,'##'E - '
_ 17@(-7E 82(F(9#'8 DM&.
@(-70(C'11\C ' @ %a'
@(-7'E '857 C 57 \ '%c@'
_ $cJ'' 2']2 KN+/*)
÷ '857 C 88\ $DL
_ M&. 8'-9 $$ DF%.
DM&. @(-70 -22' C'11' 6T ' @' %@ 'DM%.
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_ 3 1-' 4 F'& $$ DF%.
_ @ DE%\C ' %O
U '' --620(# 7' C'11' \C'
_ ,, =< \ %$ DM&.
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T '@' ,'b DaI&.
-'(@'?'27 30'F? ,'IF"'"6628 '
>'0C ' J5 C2'\C %
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x'@(-72 9(-(8['DI7 #.
_ 'R 1' ba$'D" .' b &O'
_ \bO' 1'85- ' & \'%$O'
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@(-70 ((@ F'\b ccB'D"&.
_ \ < \ $%7
_ b%' D &$ '\ &bO
@?AT'?'?7L' "CL4' \b'
_ F(BJ'66' 16 ' 5- O' &\'
_ F(8J' @' ' b$ b$'L%'.
*F(857(' T2W' & ab$'
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@?'7 24
_ cob'(&$'\&bO
=<<2162 37'61-'2' 6 (' ,'
_ 4- (< 28 ' ,'
\1-'0'(8'[&$$
_ 4- (< 28 @ (-75(-2'
4-'4' (< 28 DE&' DE&' \c'
_ &DE& @ (-7 E ((26< C"44' \c'
@(-70 37 C 57'2@ <2 D7#
_ E(2 R'17'& % D'%.
@(-702#<' R'17' & %
DM&.
@(-7'E28<R'1'&'c $DE
_ $$$ = '2 KN+-N*'
_ E2 J5 C2'\c %
_ E2 328'@ '&'
D"a.'%'c $DL6.
_ E2 J5 C2'\c %
_ E2 K<5 >'0' &'\$d D : %O'
ELAR=F:'45(-'\b cc?O
& \ DI& '32(6(3 \&'
cbaO
F!E2 J 5 ;'J 9- '45(-';6g
'DI& '\& cbaO'32(6(3
\8 cbaO'\b %%a'
_ E 66 '8'#2'@ <'\b cD'DF6.
_ E <2-5'C'11'C ' &'DL6.
_ E 837'9 >''&\ \$a'DG&.
_ E 9 837'9 '6' 6 a$'DF&.
_ E628728 9 @ X'\b ba'D"6.
_ E66((26<'F6' '' DF&.
_ E66((26<'F(88' a b &'
_ E6((26<'&'F(88' a b &'
DLB.
_ E6((26<'$ '=8<'\ DF&.
_ E 28-(8'F(9#'8 '' 45(-'
_ E 28-(8' M2 ' b %@ &'
_ E 28-62'F 22 ' F'8'\b '
_ O'-.Z+\'a '6 &%<
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@(-70(C'11'C ' &'DM&.
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_ %'a' DFa.
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_ 3 1-' 4 F'& $$ DF%.
_ @ DE%\C ' %O
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_ ( ) 8
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_ \$'0C _ 'b @ &
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_ 'R 1' ba$'D" .' b &O'
_ \bO' 1'85- ' & \'%$O'
- ?-' DI48' & %aF' b
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_ E(2 R'17'& % D'%.
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_ $$$ = '2 KN+-N*'
_ E2 J5 C2'\c %
_ E2 328'@ '&'
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_ E2 J5 C2'\c %
_ E2 K<5 >'0' &'\$d D : %O'
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_ $$$ = '2 KN+-N*'
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@ 6’ ‘ 4 " ’ ,## @ 6’ 1- ((9
@ 6’8<’ ") ’ A 11’ &% `c& ’ DE F%.’ \$ %`%’’ \$ % ` ’
@ 637’ ’ ,## @ 63’ @X;4TA??C’ 4 "6’ \b b%$0’ & aa’D\a.
@ 6’ 62 ’ 1’6-’ #’8’ 4 " ’ & ’ aa’D\
@ 9’322’ @ 4 R’ \b %`’DM%.
@ 90(<’ ’ @ 4 R’ \b %`’ DG6.
@ 92328’ , (66’ ,## @ 9’ J2328
@ 9(2’ C 88’ \` $’D$%.
@ 9#7’D9 -7 .’ ,## @ 9#71
@ 9#7’"6’’ \ a$’D$ ..
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@ 9#7’2’ D’8’- .’ ,## ; ’0 ’’ 9 8(

@ 9#7’2’’’ ,## R’-#5 K6 ’D" 1- ’6 ’8.’ 3 3’8-2’’’ ,## 6 #’ R’-2 66 ’6(-(1’ ,## :(- 1 ’9 5 ’8-7’’’\a %&c’’
@ 9#7’2’52’2’ & \ 0’ 6(J2 \$ a$’’ 122<66 & b0’
F@ 9#7’2 9’A 11’ ,## L6-2’ 328 ’5’#2’G’\& $’D$.’ *## ’ ’’-7(1 ’
@XC>’ " KC’ D9(8 928-.’ \b b%$F
@ 9#7’3(-21’ >(12 <(8’ && ’ \c$’
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@ 9#0 ’’1 ’’C ’ ,## : ’ ’026’
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@ 8’4’4J2<’&` \b$’DM&.’
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@ (8’ D@2 41.’4J -B’ &a & &’ D" .’ &a & (’ \% & ’ #(# 6’- (8’ &c b ’’’ #(52g 6’ 8’ 9’8 ’2-22’ ç \<’
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@ (8F’ I ’ \$ cc`’ DG .’ ` ’ ’b(’
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@ 1’’5’# -’-’’’ ,## ’h’## 0## # ’b(’
@ 11281’’’6O2 .-’` ` ac b’
@ 1-’<’ A#11’ &% c&’ DE%.’ 6 $c’’3 ’8 -2’’’ ,## :’#’ 3 ’8 -2’ - 2’- ’ D\c&\.’ &a ’ &$a0’b b%\<’&% `bb0
@ 1-’39 1’\ ’$a<
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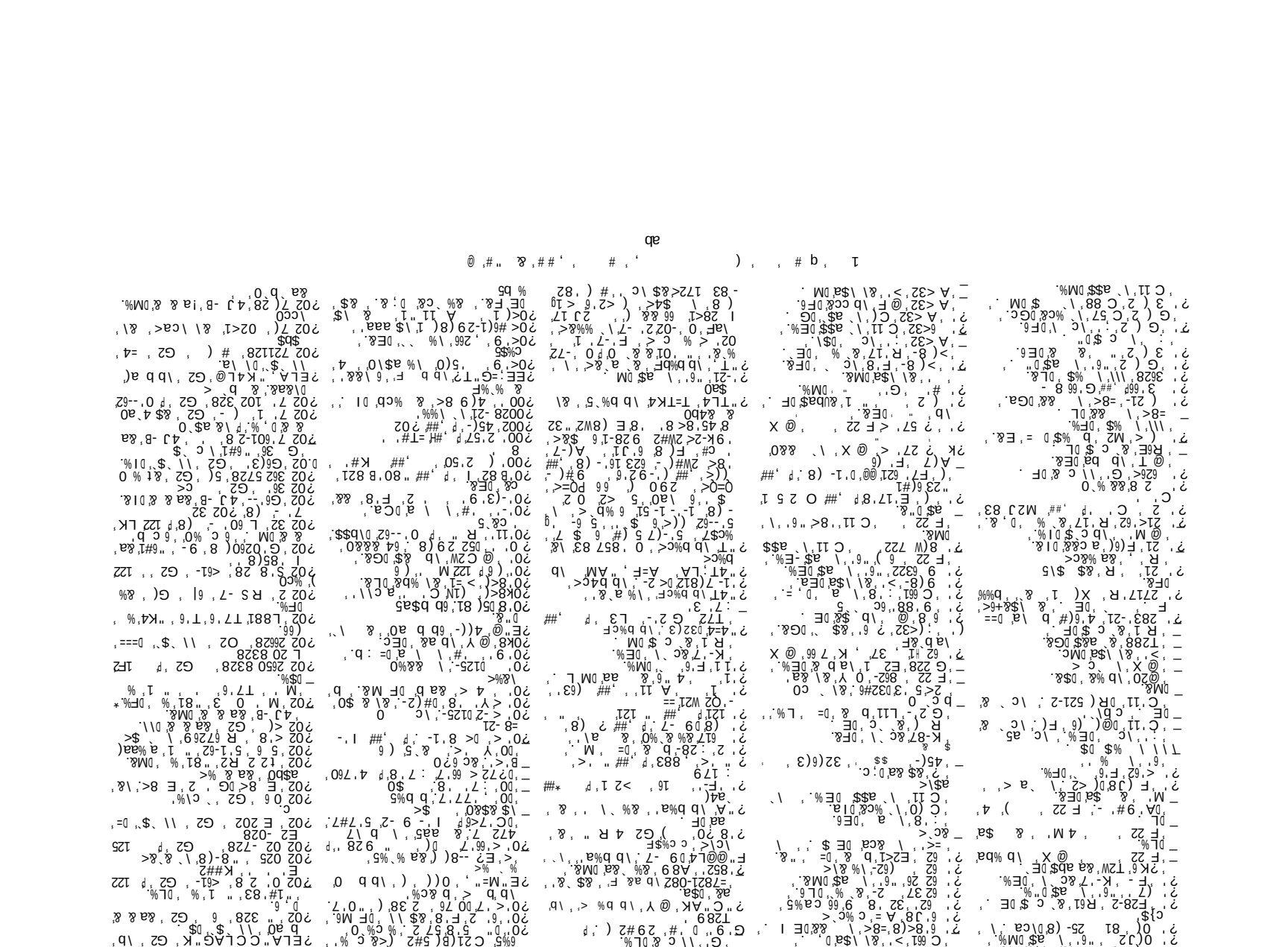

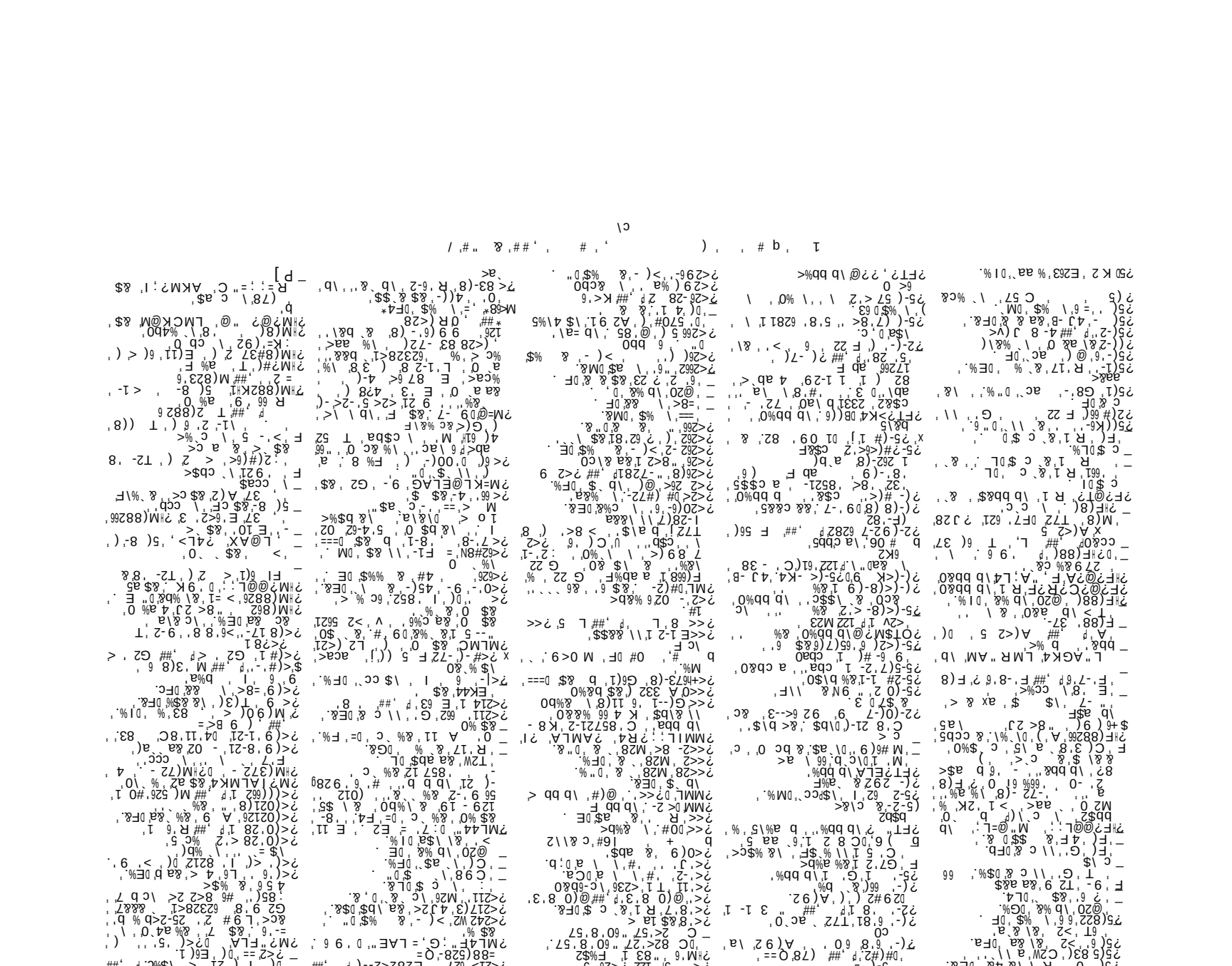

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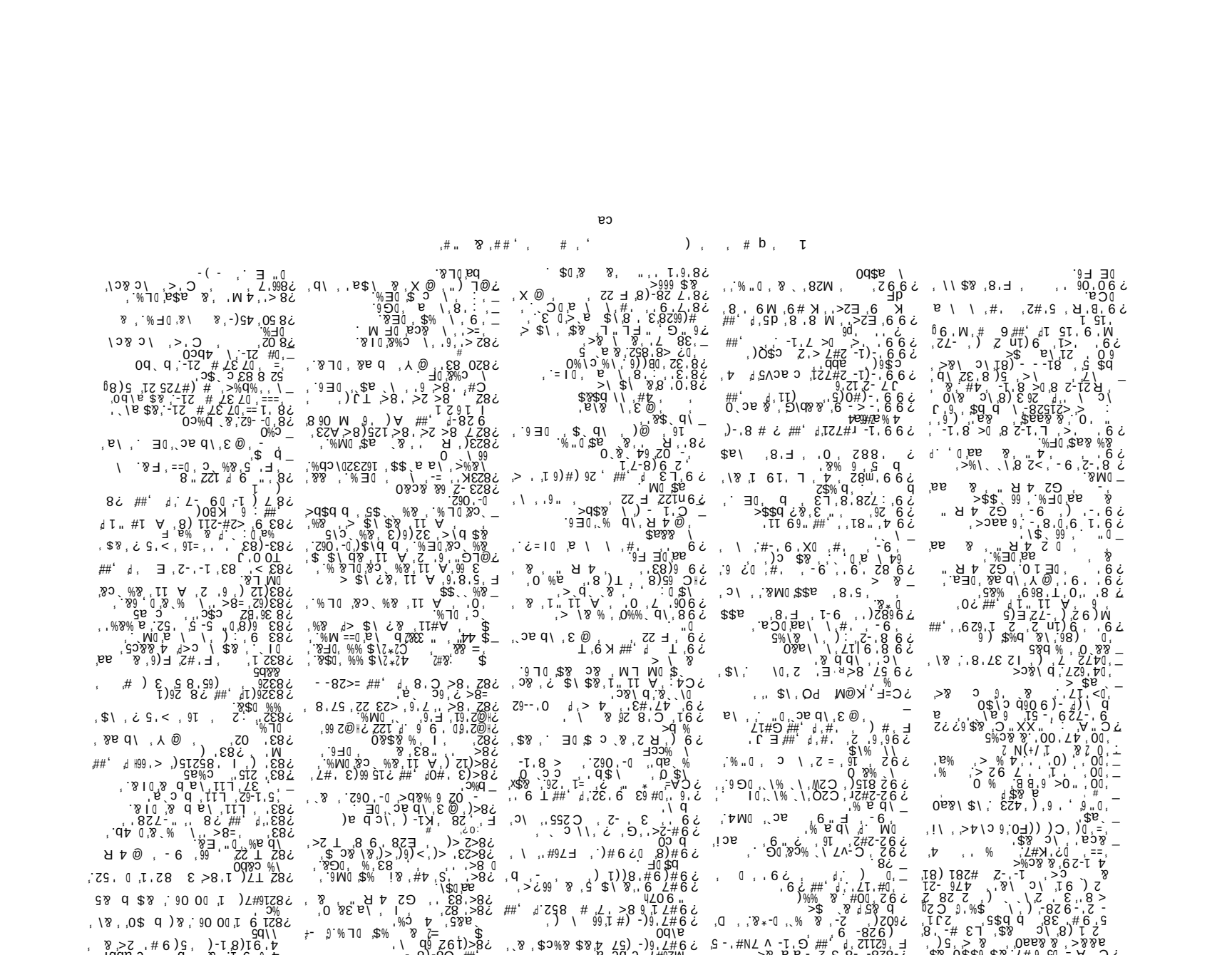

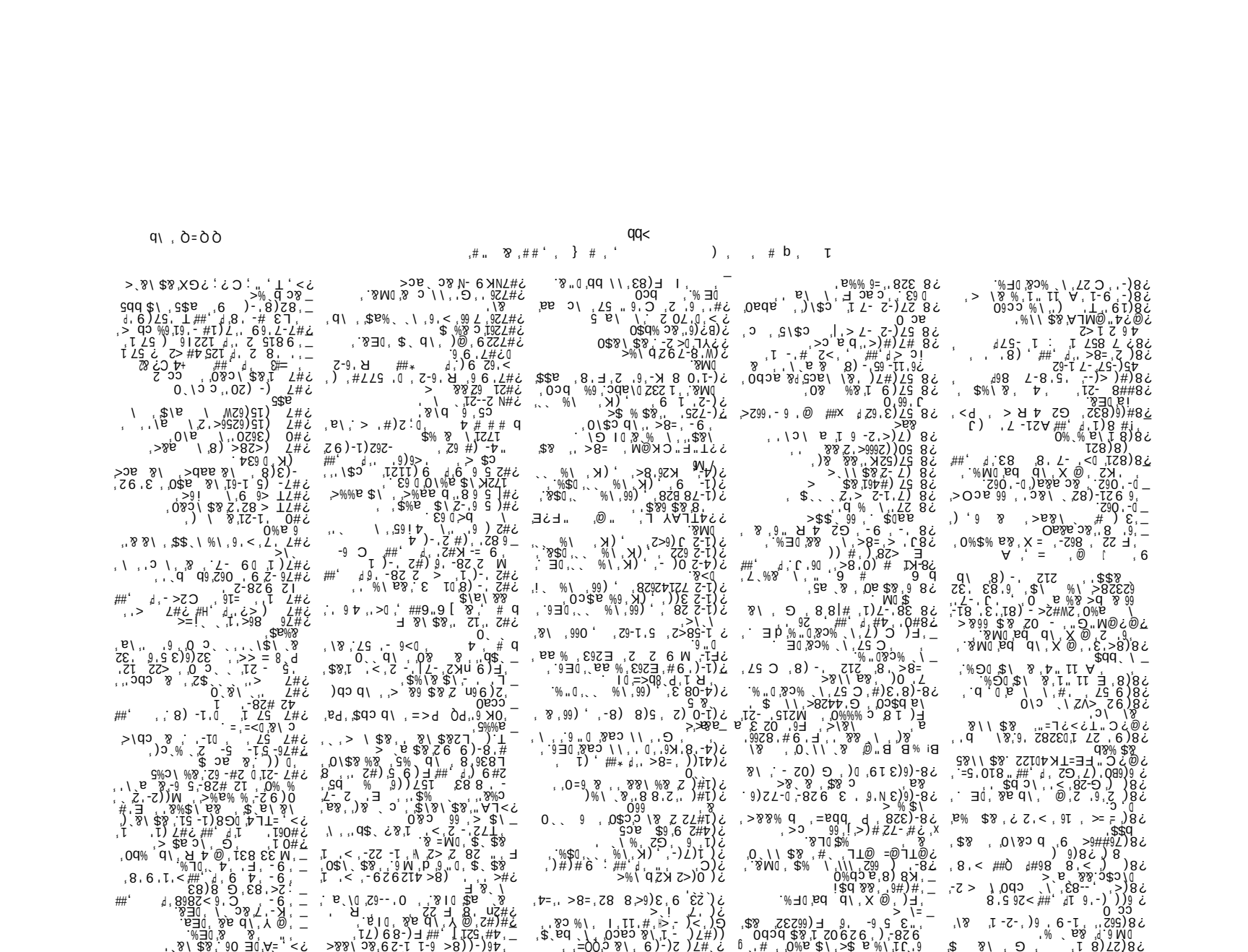

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?Y"@"C' "@T?=@L' e A = ' '#%-2' 'C('\b ca6< DC%'' L A=TL'&$ %$' ?Y? :.'? \& $'DE&.' ?B' D '#'8#12' '-1-.' \
2 (&$ &bO ?B'F 22' ' " ' & ! & "F(' C('\ a$'D>"." ?B((61'<1-'? \& $'DE&.' \a a$?B' 6 D '#'8#12' '-1-.' \
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 DM' \b' &$Z D I ?B' 6 E L "' a$'DF%.' ?B(8''T21-'&a ab$'DI ; ,#H'?(7'
F'T'1T'b b$\' =P'R 2 :'8'64 a 'DG6.' &a %b%< ?B''E-'G '\& & 'DG%.'c' ?B'82''& &'DE&.' ?B>7'9''C25'\'%\''DI%'
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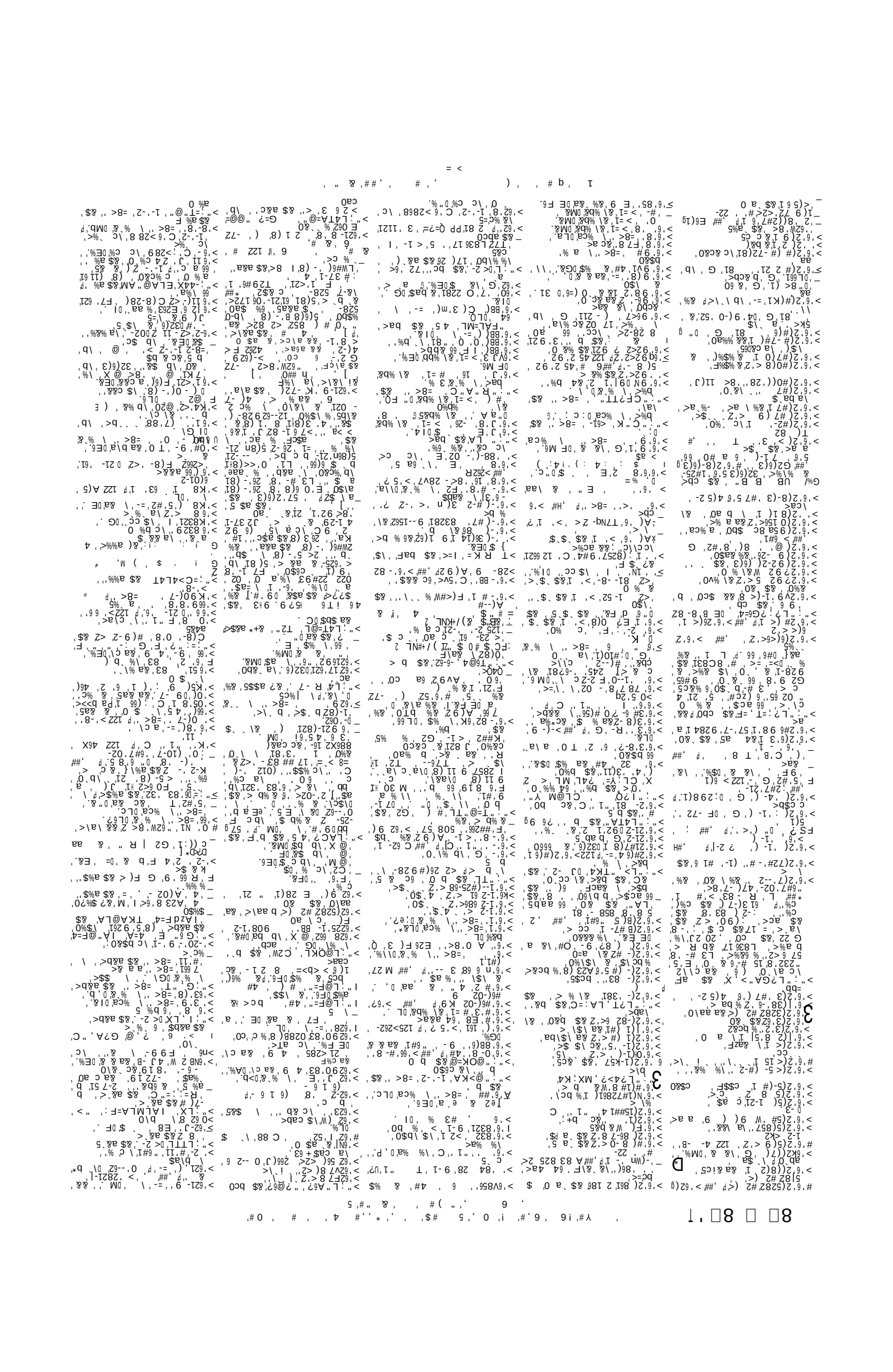

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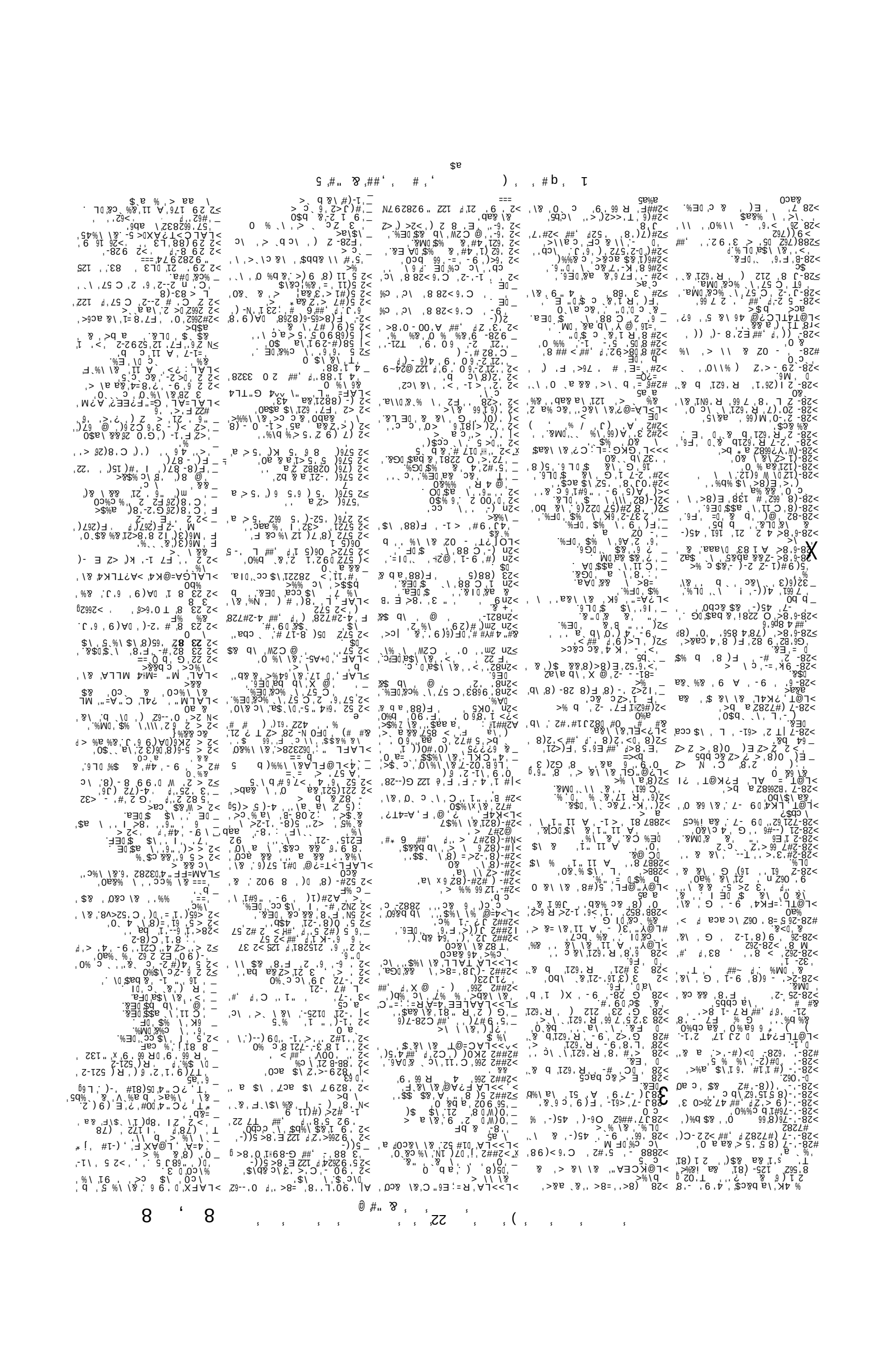

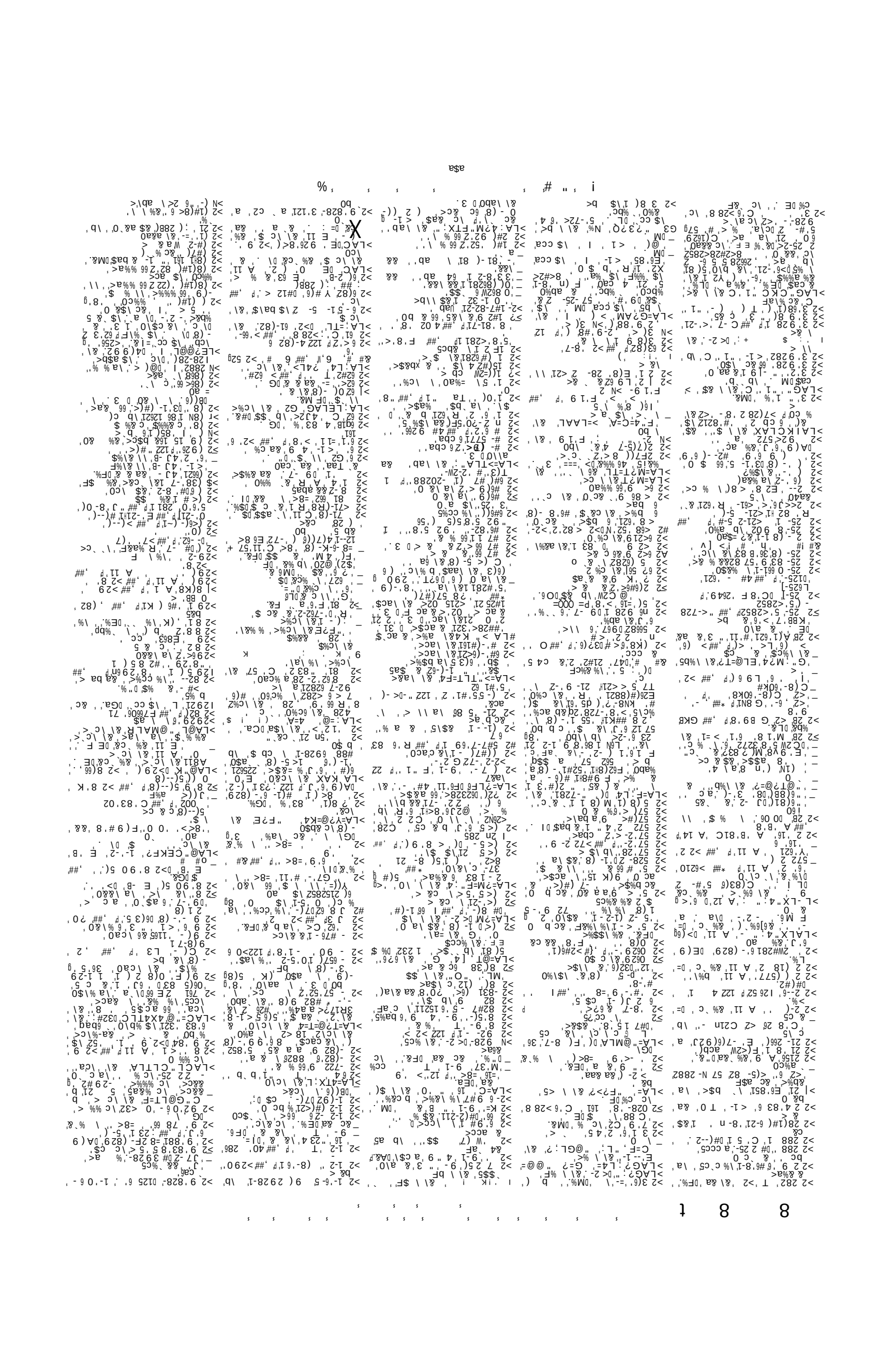

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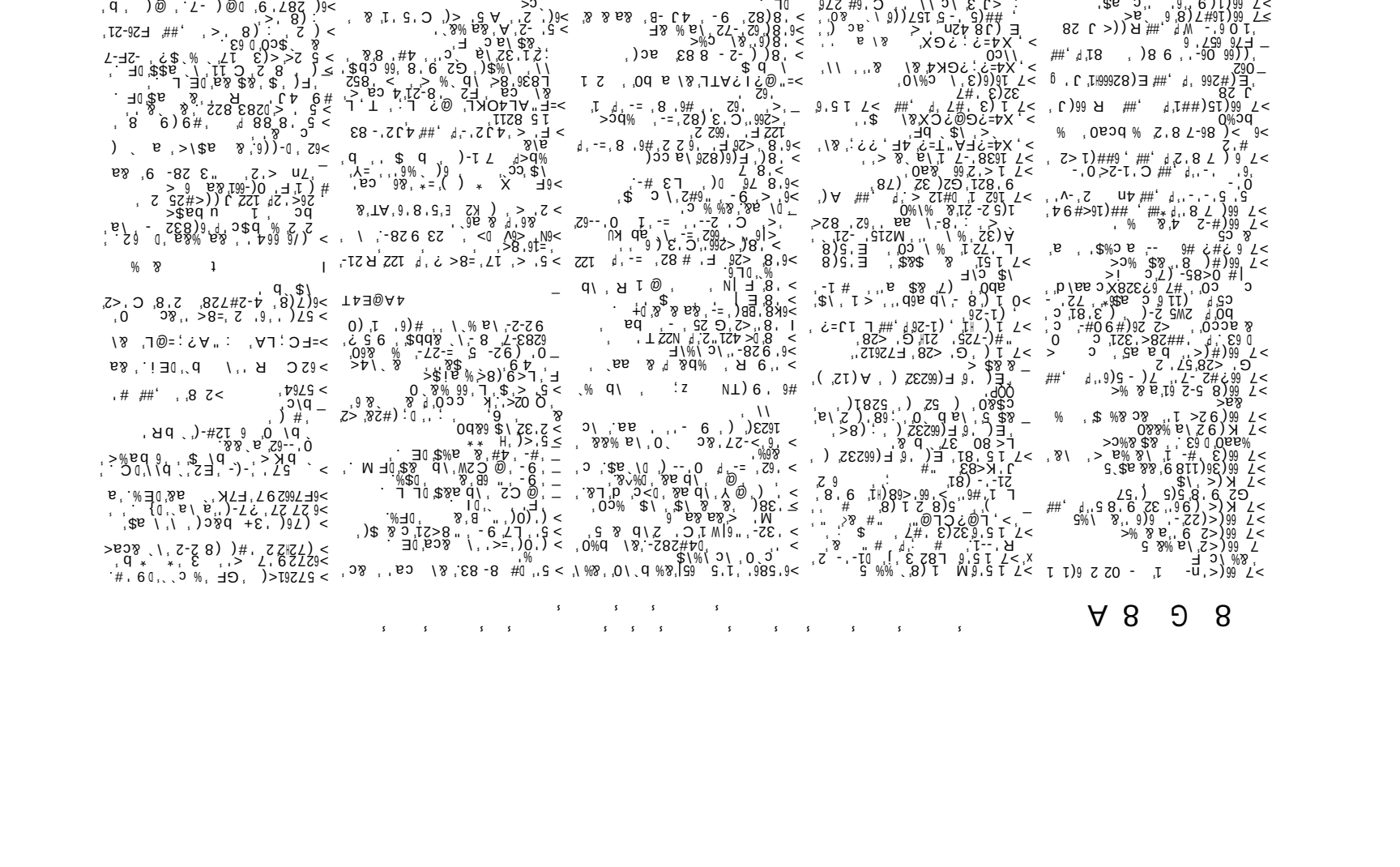

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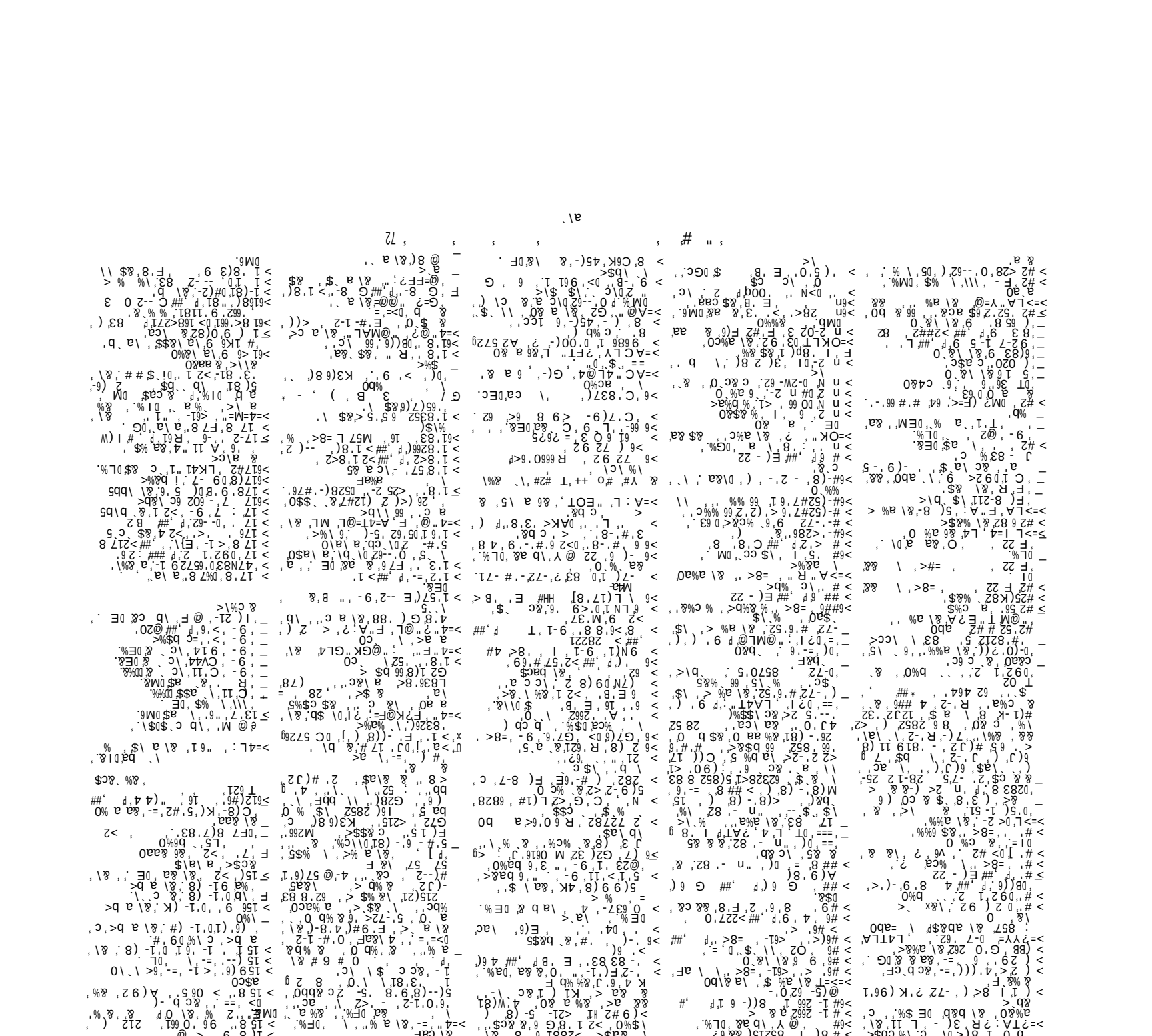

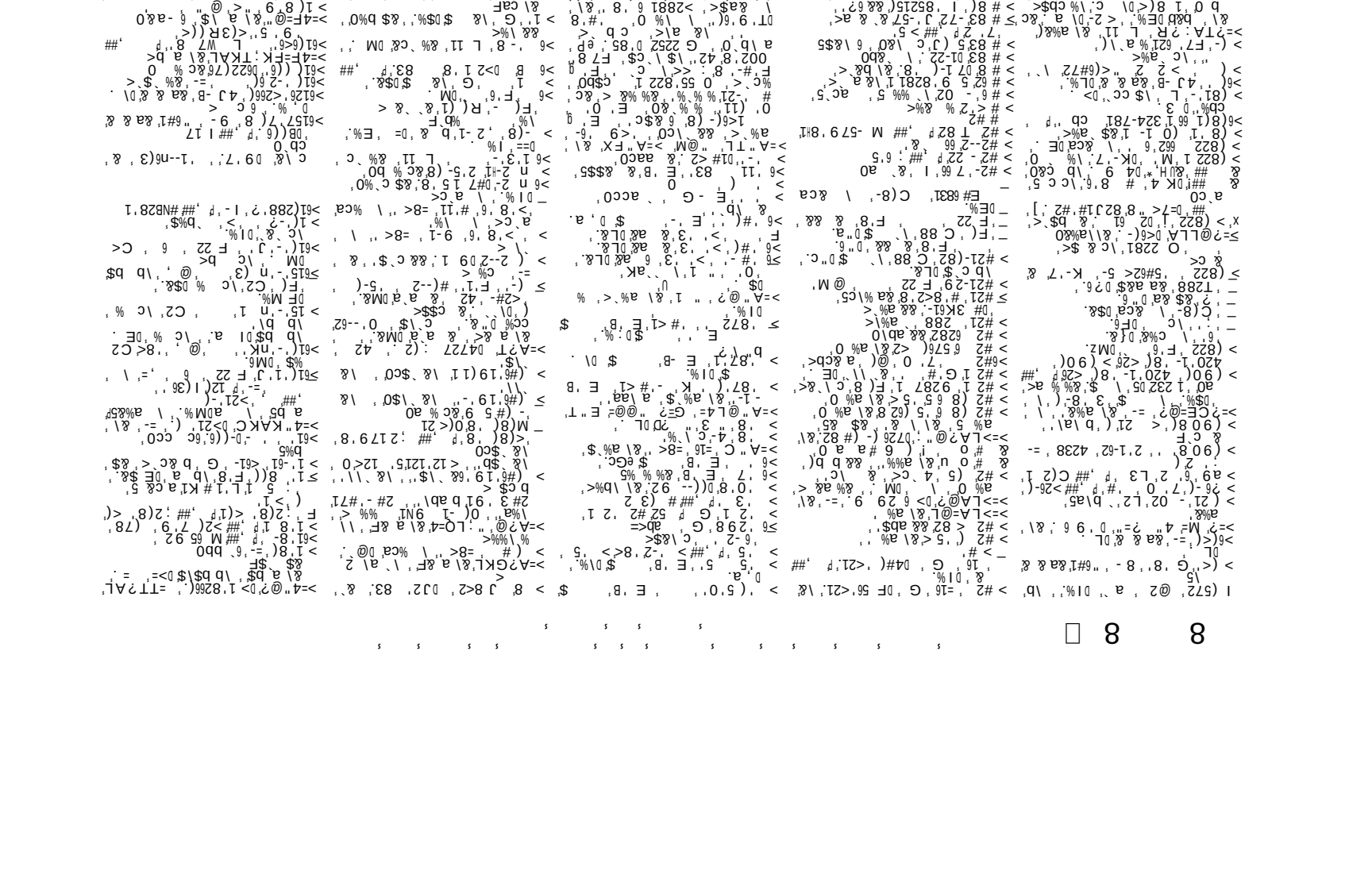

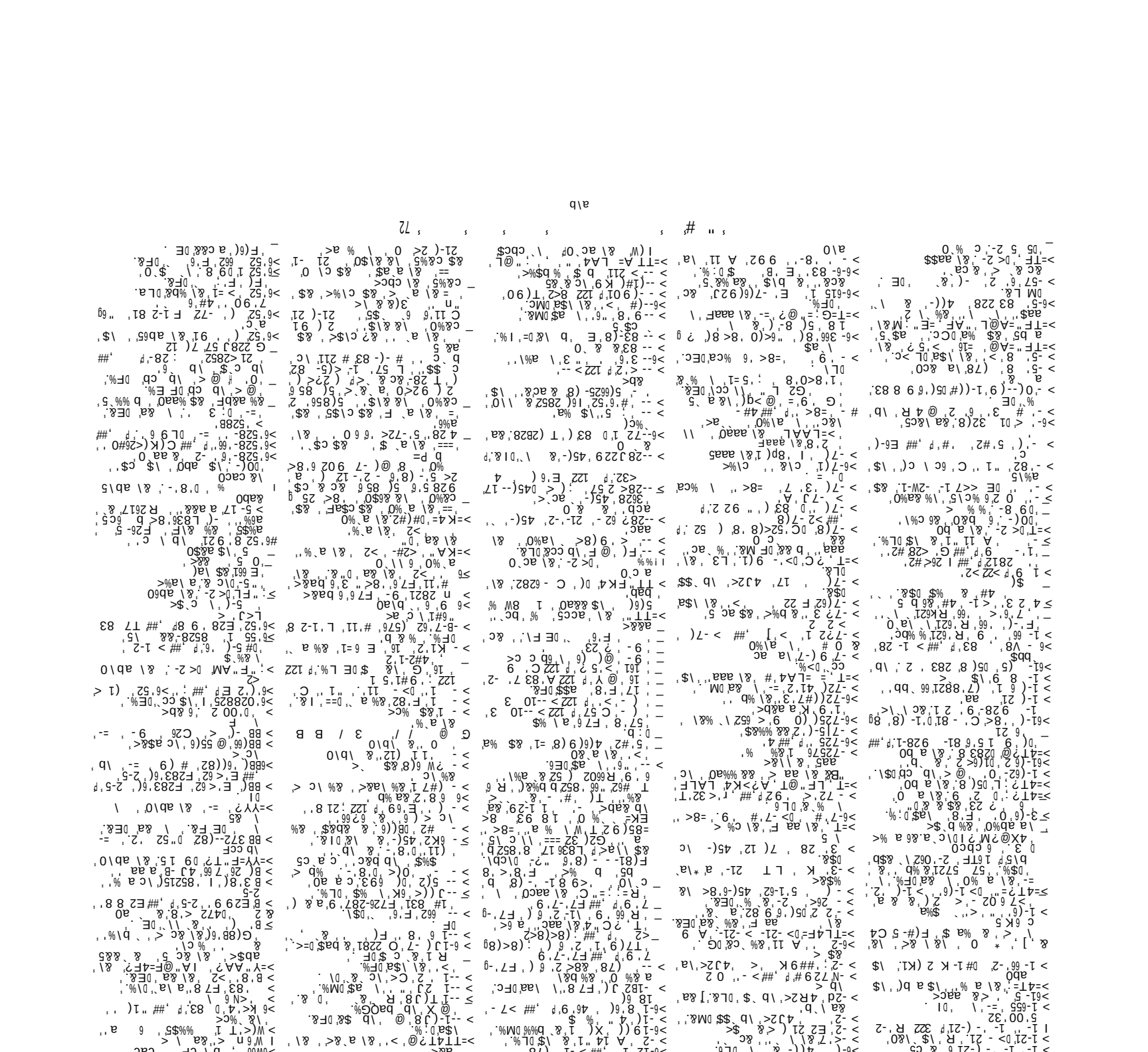

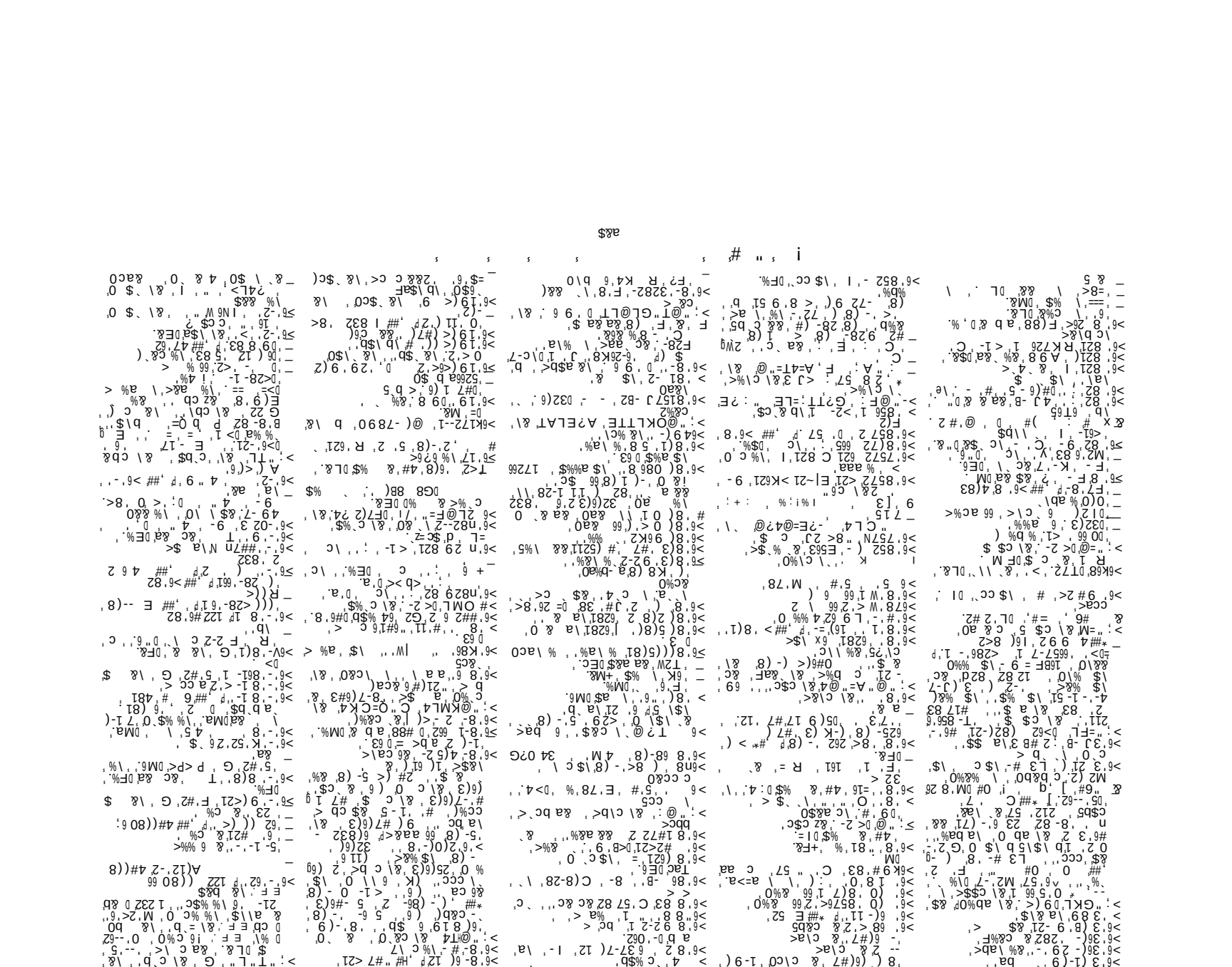

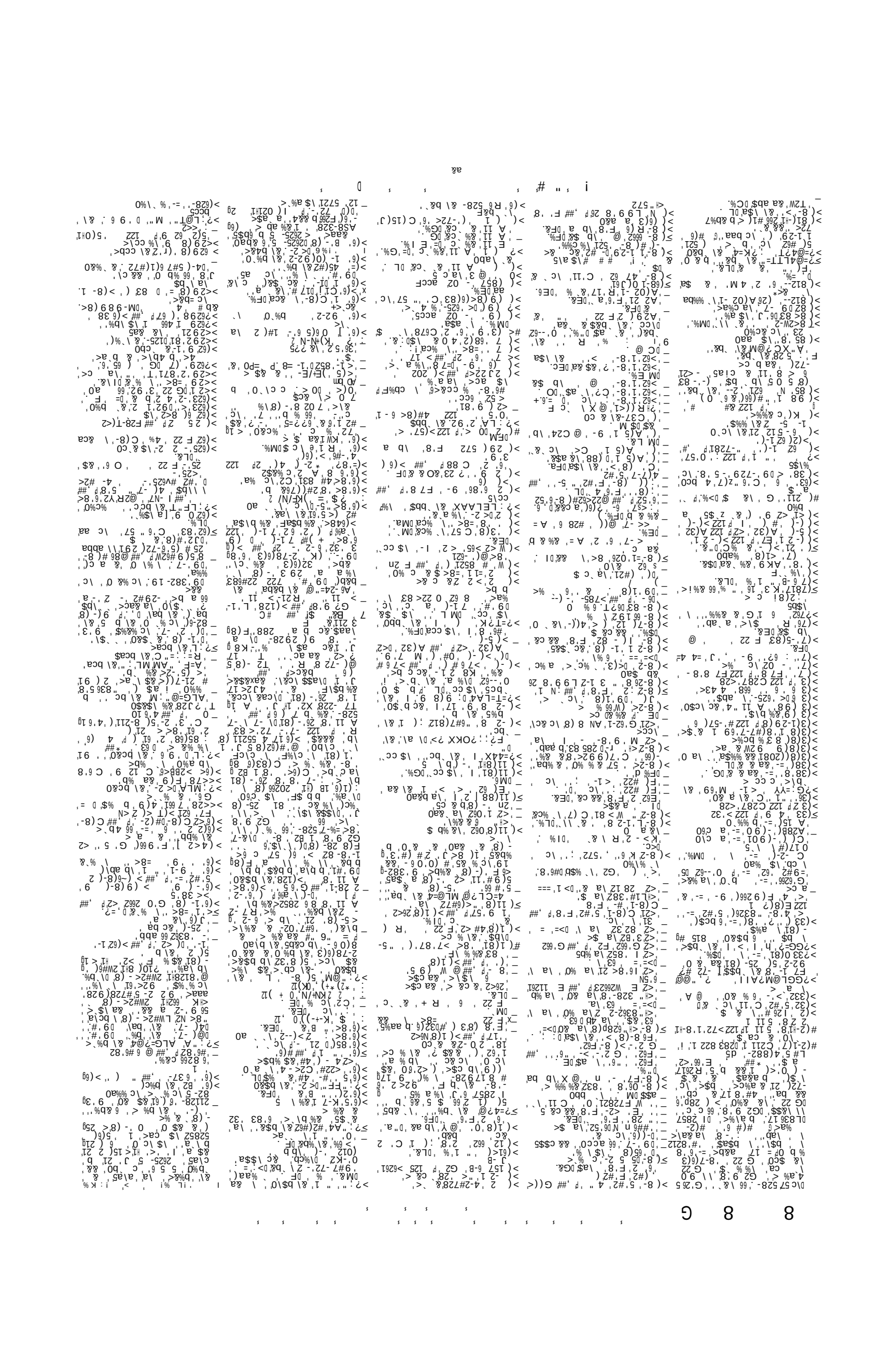

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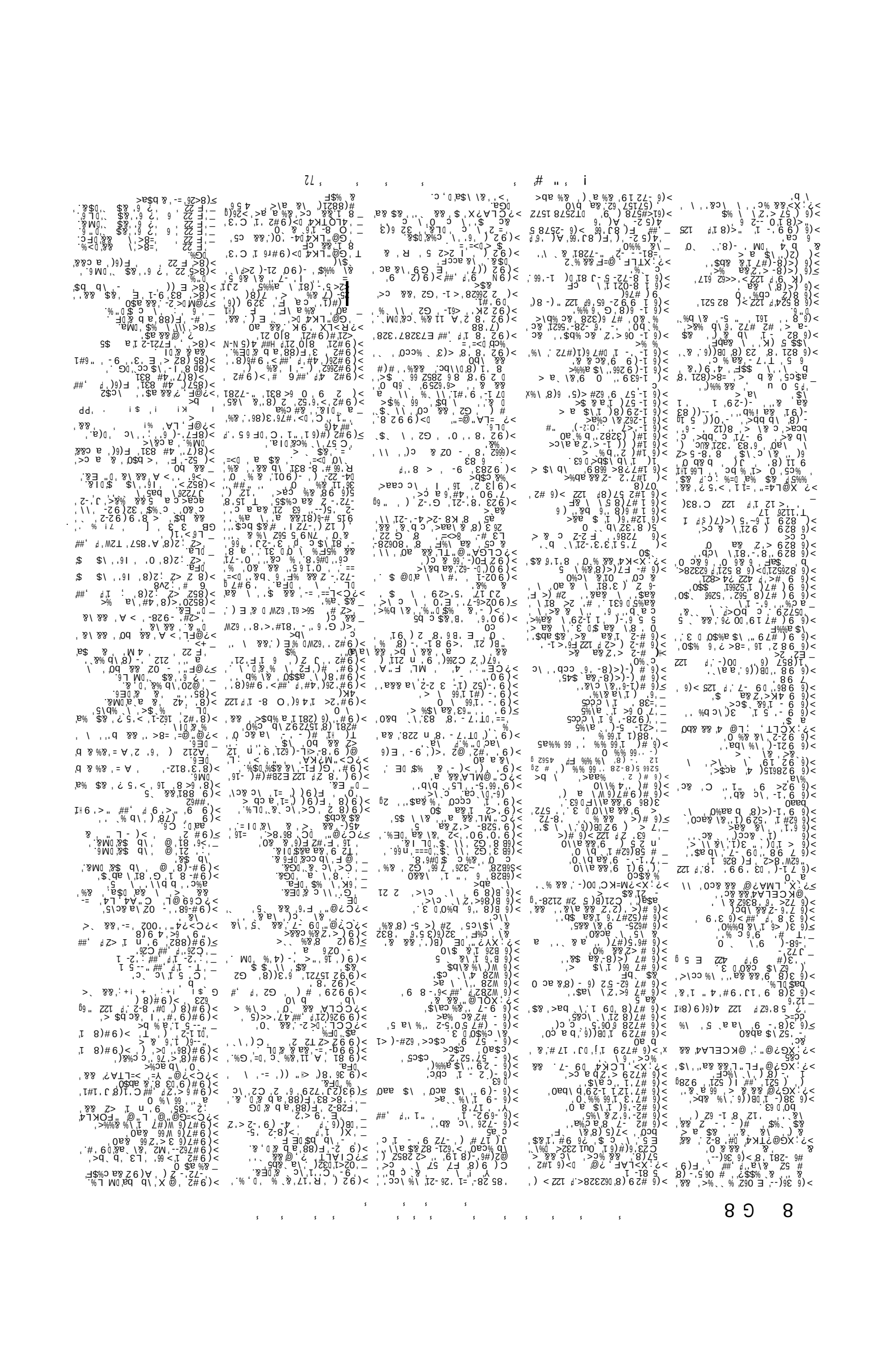

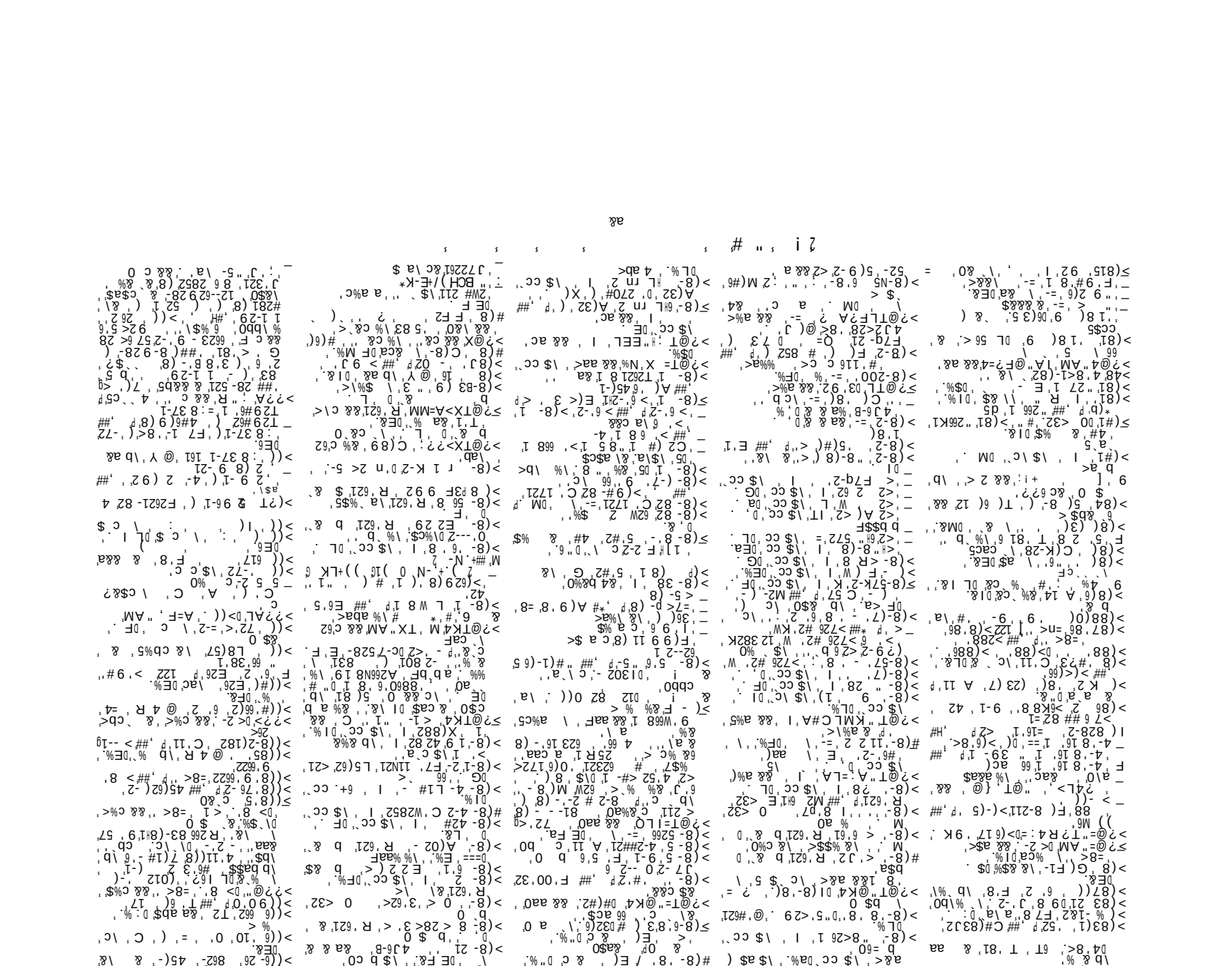

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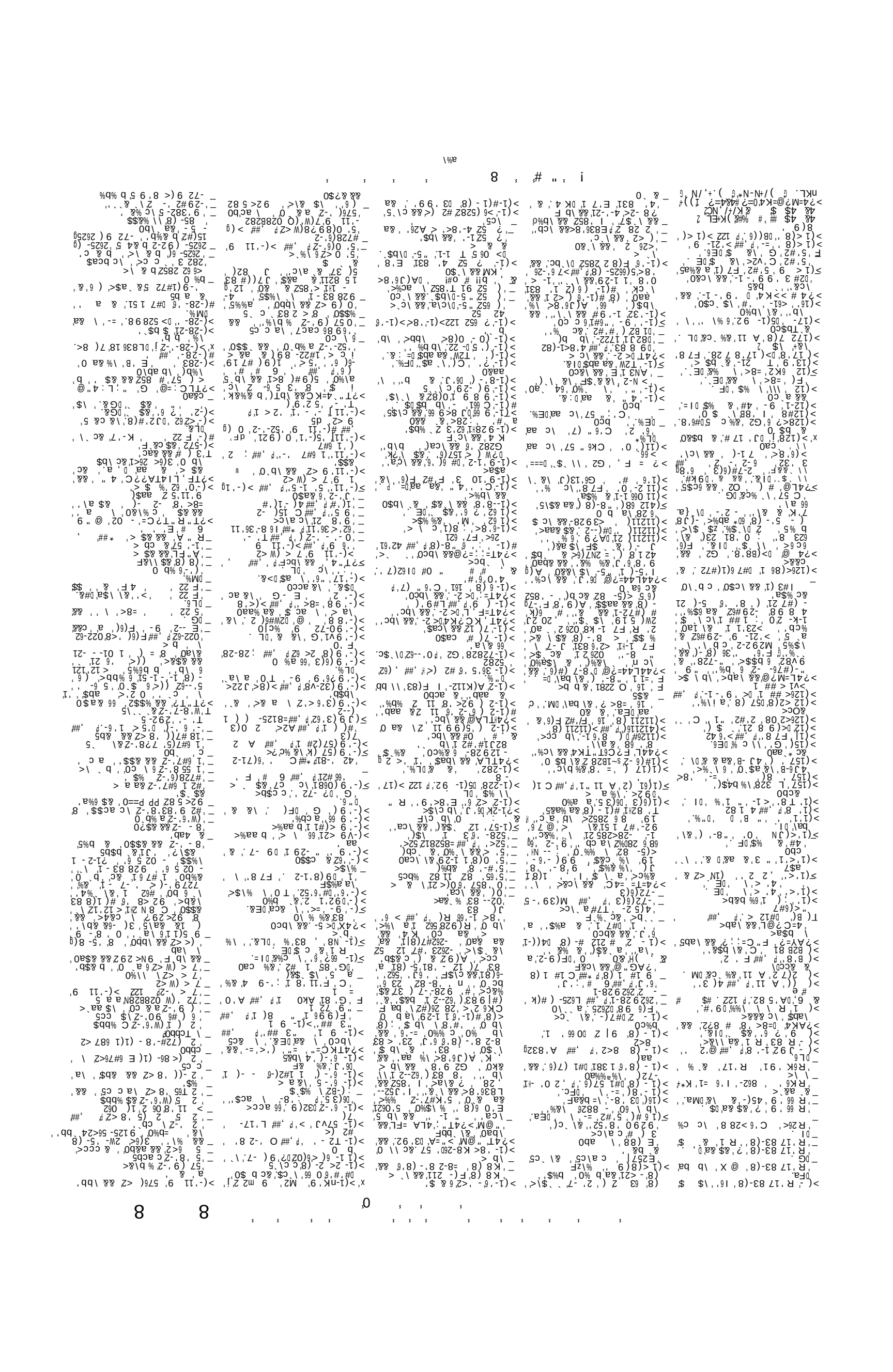

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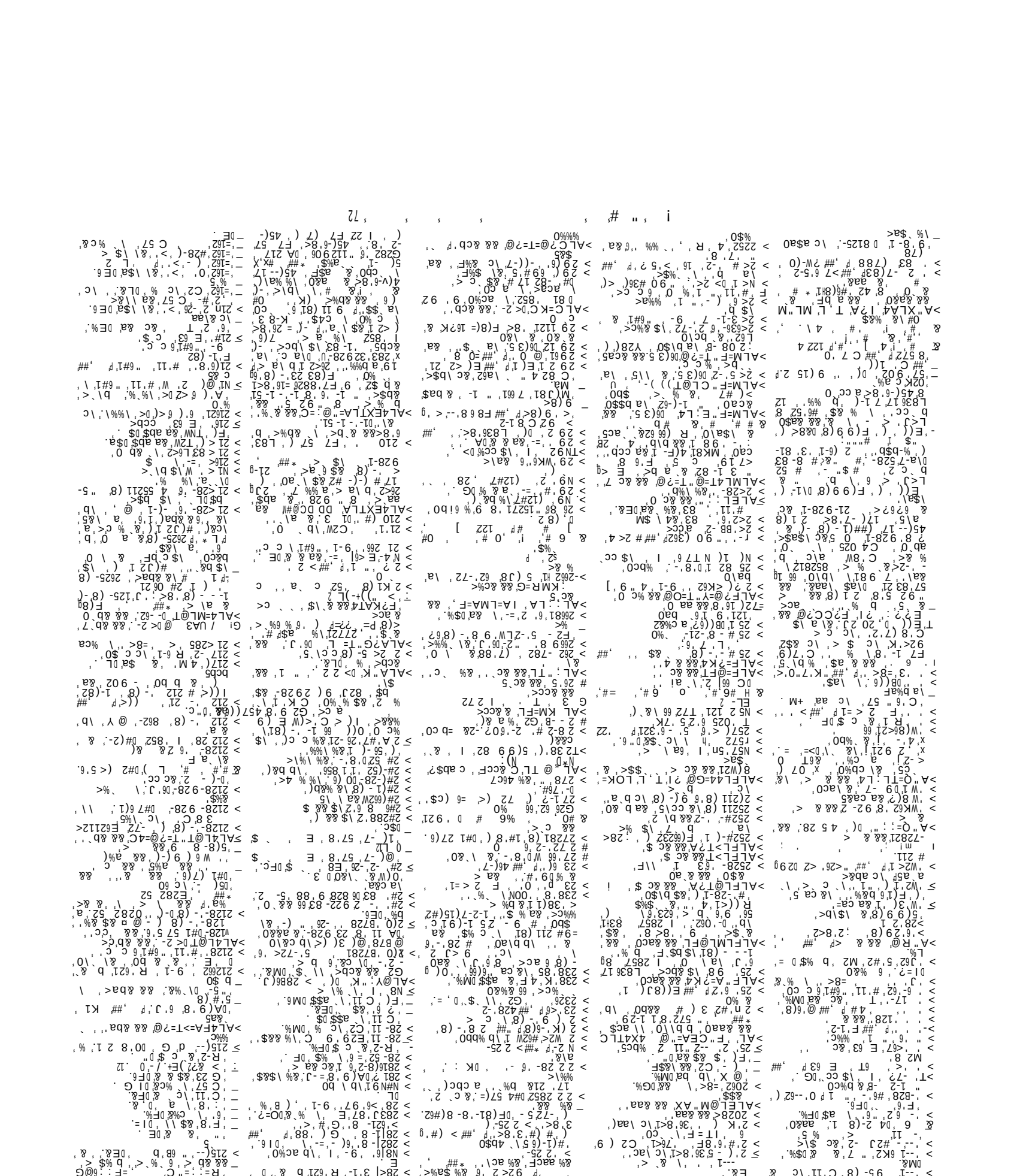

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>A?7T 4T"@TL=4F?>"; L-=@ && 4"@T L>=4F?>"; L-=@ &&
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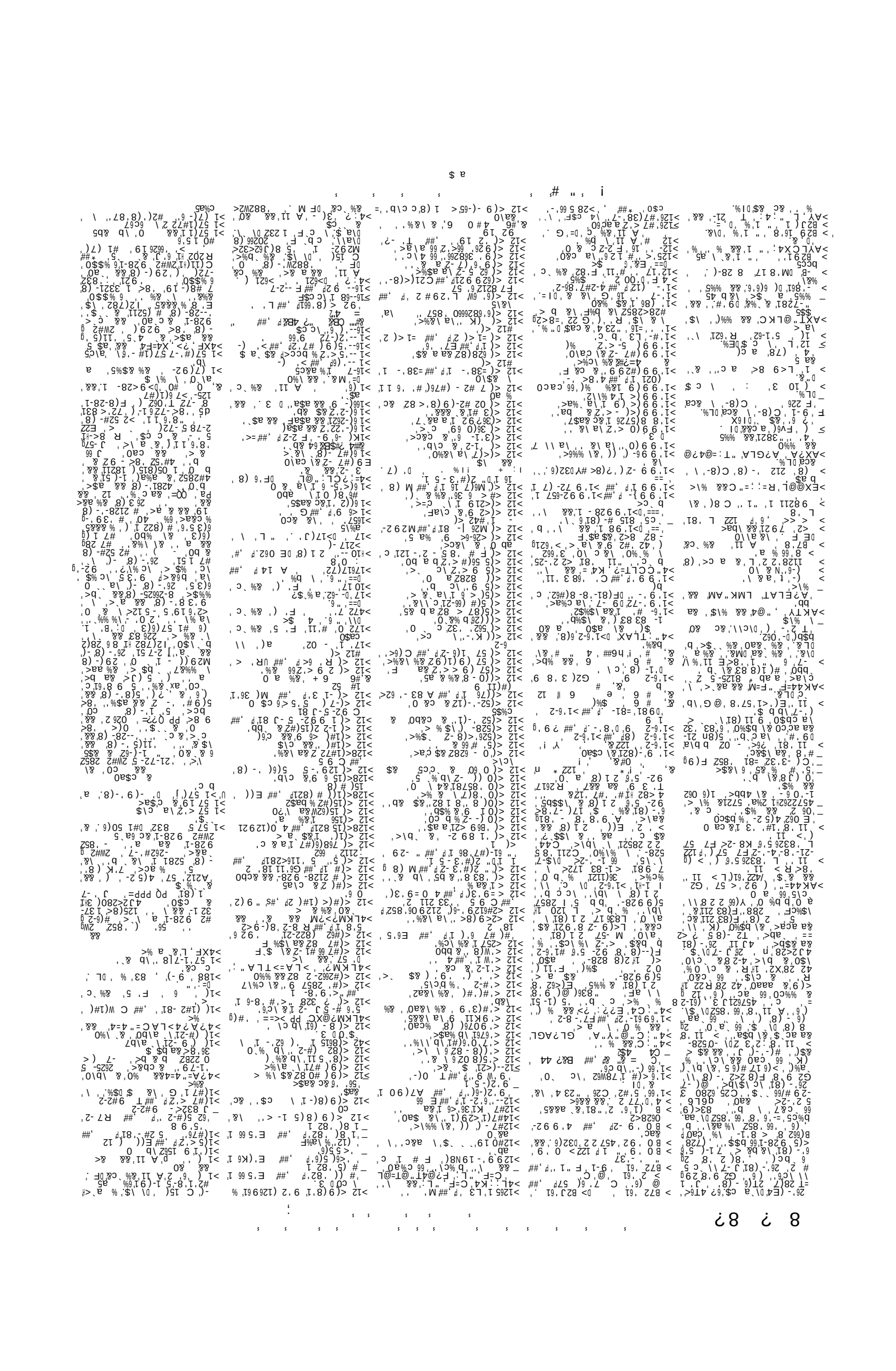

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c&a0&' ,'##2'6'5(\c<' -1&'a\a5' 56 K' # ((2<< 2 \$ a%'' ,'9 -2&& 7 9 21-2 <' '8< ,2W29#-'(8 6'J1'% a '$<'\$ a%O'6 n (6' ,'a c<?O #' 928- (' 9292 1'8$ bcO "F' && c&O" ,"92 5'8' =8<'81'&c ac $'F'8'<'8' 5'81- - -(8' \ 'O ,3 (# && &%c0 OKLLE@E?A?KG ,' :28-&& c%0 b 2-E 9 2 52' 8< 1- 21&&& 5'9 92 52' 8< 8' 0'&& 5'9 -2' && c%0 b &0 c%5' 8 852 && c%a' \ ' c% ' ' 8 852 && c%a' \ ' b 5' 32'6(3 && c%0' & b%< 623 - 9 5 \ $%'D'6 n (\&'' ,'a c<?O #' 928- (6' ,'J1'% a' $<'\$ a%O'6 n (a%b5 OKLL@ ' "@M' 4-'-2' ' 1- 56 9 -2' && c%0 & b&0' && c%0 b&0' && c%0 b&0' 5'9 92 52' 8< 8< 1- 21&&& c%5' 8 852 && c%a' \ ' c% ' ' 8 852 && c%a' \ ' b 5' 32'6(3 && c%0' & b%< 623 - 9 5 \ $%'D'6 n (\&'' ,'a c<?O #' 928- (6' ,'J1'% a' $<'\$ a%O'6 n (a%b5 O 228172 '(- '45(-'& \& 5 1' 831' 0'8 1' & & a\&< & aO' J2661'& b O & ' '3 (#' &'% c'b$' & a\&< & \\\ ' & & &$&O' ' #' 928-' 9202 1 &$ 8'6 ' bcb5 '#(# 6'- (8'O&& 52-'# 1'f ,'## M ' FO2182 O 2 52- 8' &&& c &O' && ab ' ' O 2 5 ' 5'2#(<266"f ,## M2&6' ' 5 ' ' '

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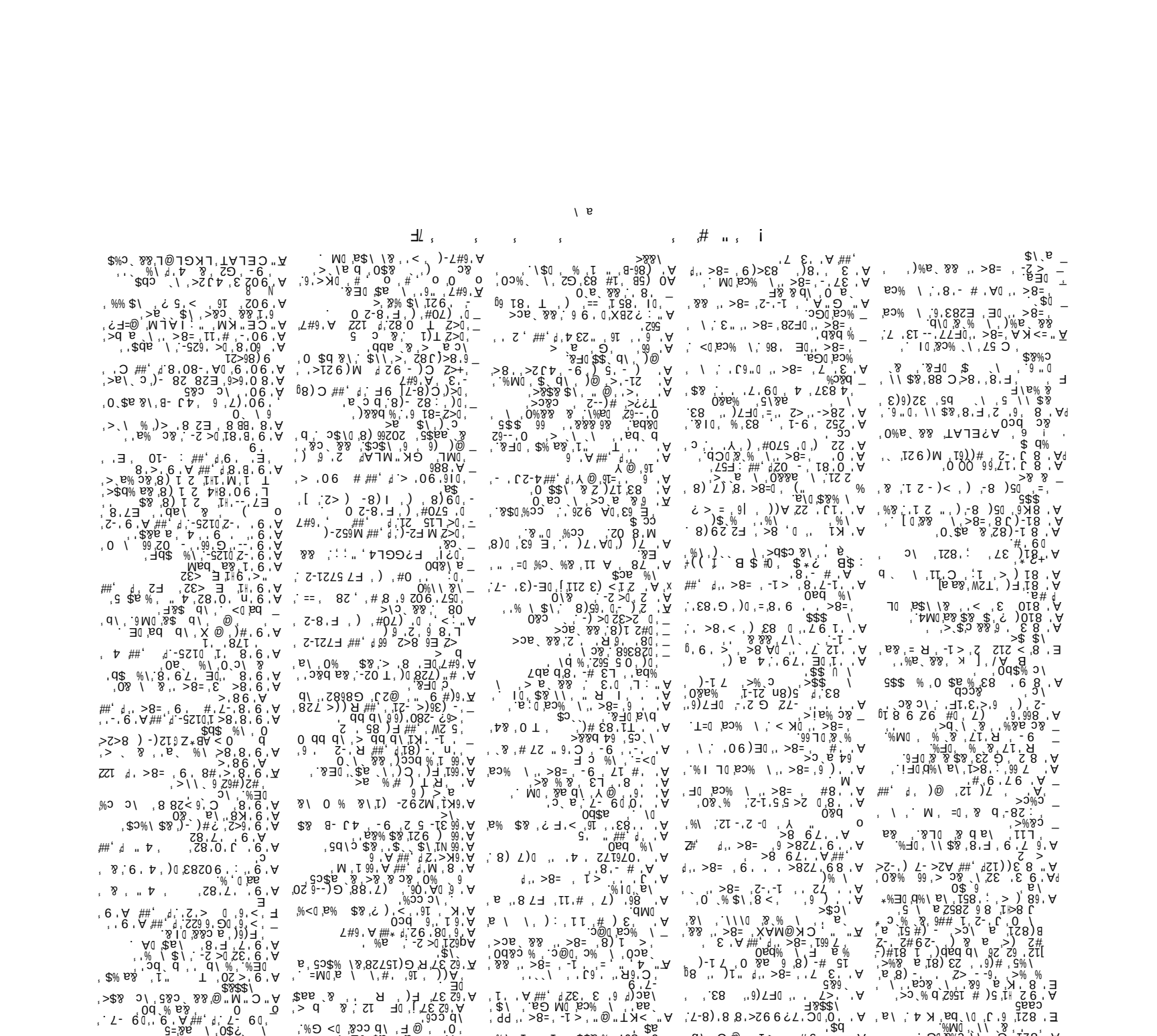

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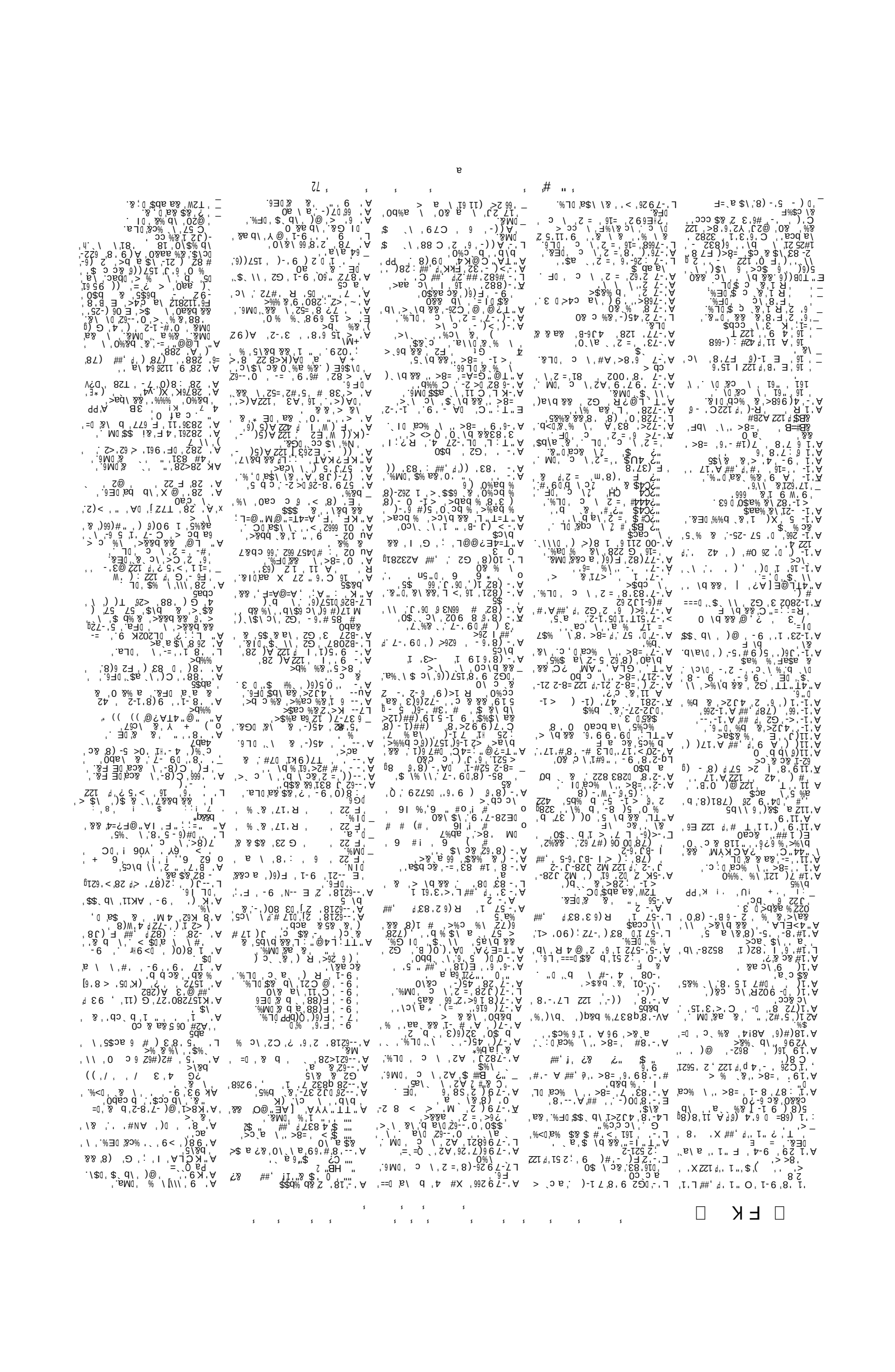
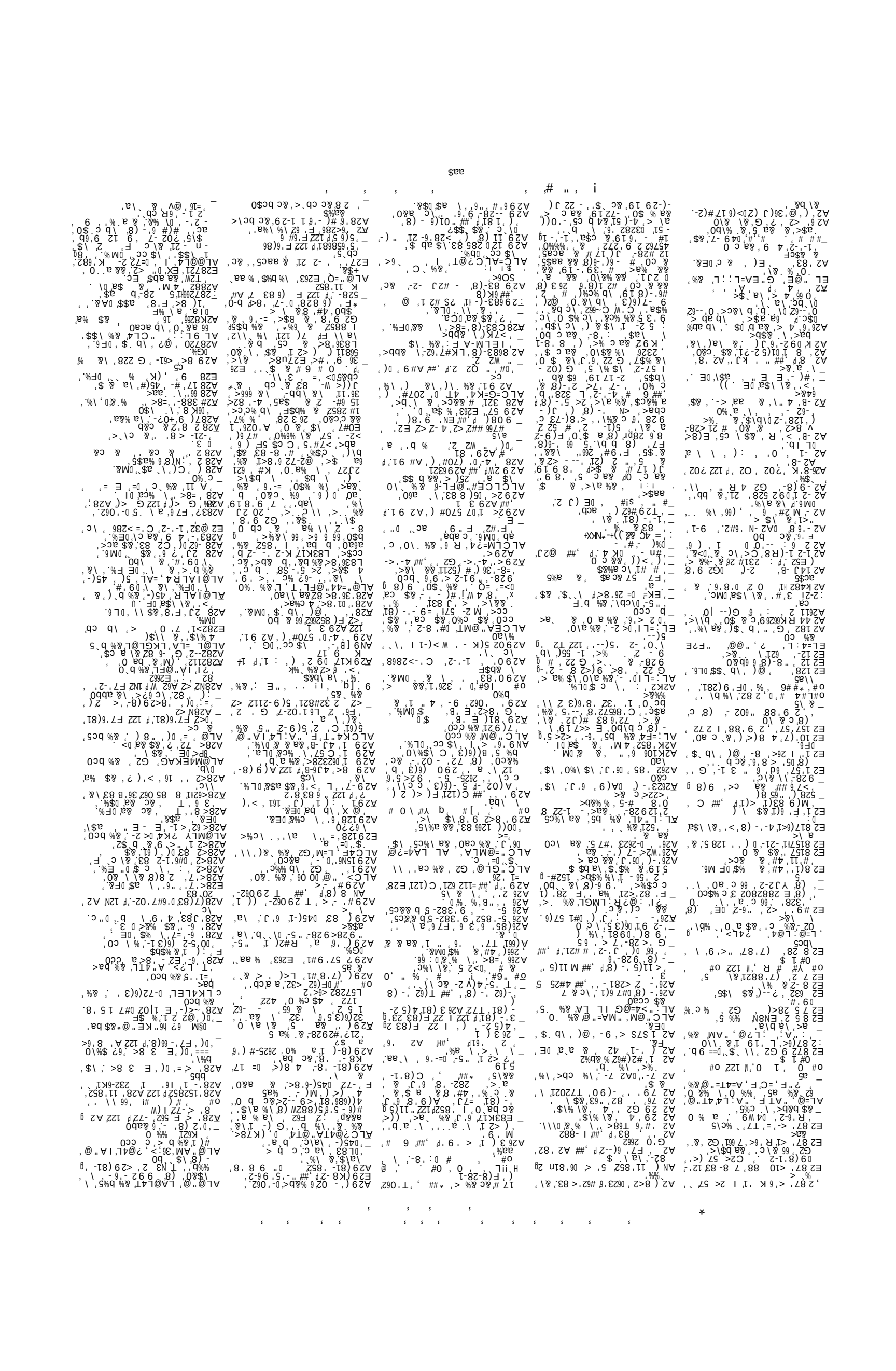
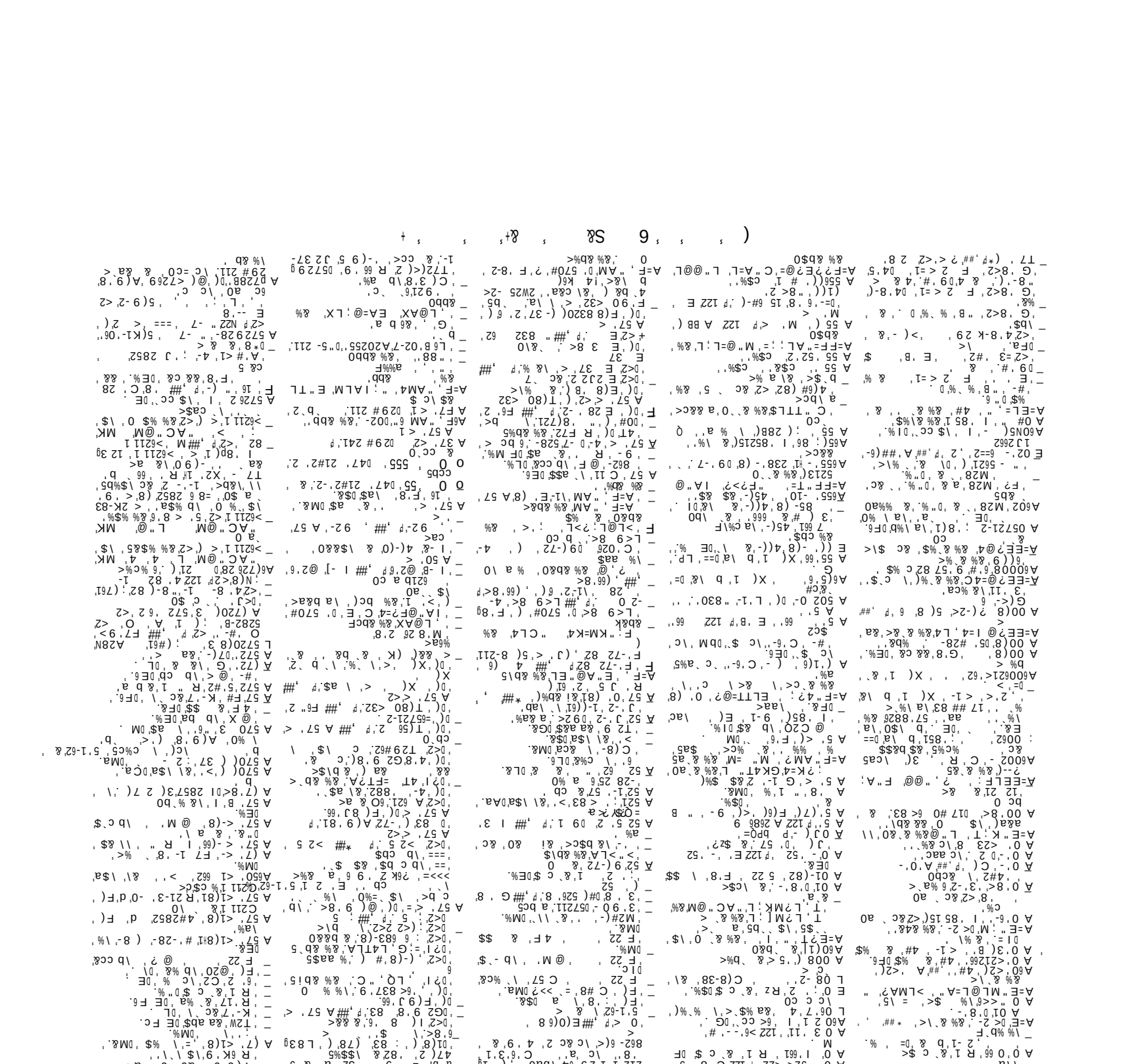


A2< #6 5-'2 D02- '\$ a80' A2< 'D2 ,## G '117(##2 ' A225 <'f ,## G '117(##2 ' A225< 9 '52'f ,## 6 17 A22<62 9 '52'f ,## 6 17 A22<62 9 '52'f ,## 6 17 A22< 9'E3 -(8 D3 9 9 9 ;\8' A2< #6 5-'2 D02- '\$ a80' A2< 'D2 ,## G '117(##2 ' A225 <'f



A2882- \b b&&O ' c c b' ' ' F7 1- ' --2 M ' 4' 8-1' \1a<' \ _ ' 552ll(' %% ' ;' >' &% ' ' ,&&' ' ,&& ' ' '



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A 2 -18`, 66 \0`, A B`%%5 A(`3 &62-`4((-`& \@D"6. A(00 81-(8`C2`,\c %`DL%.` A(00 81-(8`C2`,\c %`DL%.` A(00 81-(8`C2`,\c %`DL%.` A(00 81-(8`C2`,\c %`DL%.`
"5-`D\`&c\`,\b &b<`D\`b` A B`4(72<233` A B`4(72<233` 4572&<233 A B`4(72<233` G2`f A(`8 ,`16 C`,\`&-7 528-. A(`8 ,`16 C`,\`&-7 528-. A(`8 ,`16 C`,\`&-7 528-. A(`8 ,`16 C`,\`&-7 528-.
&& a&<c` \b &b<`D\`b` A B`7 \b cc\` A B`7 \b cc\` A B`7 \b cc\` A B`7 \b cc\` A B`7 \b cc\` A B`7 \b cc\` A B`7 \b cc\` A B`7 \b cc\`
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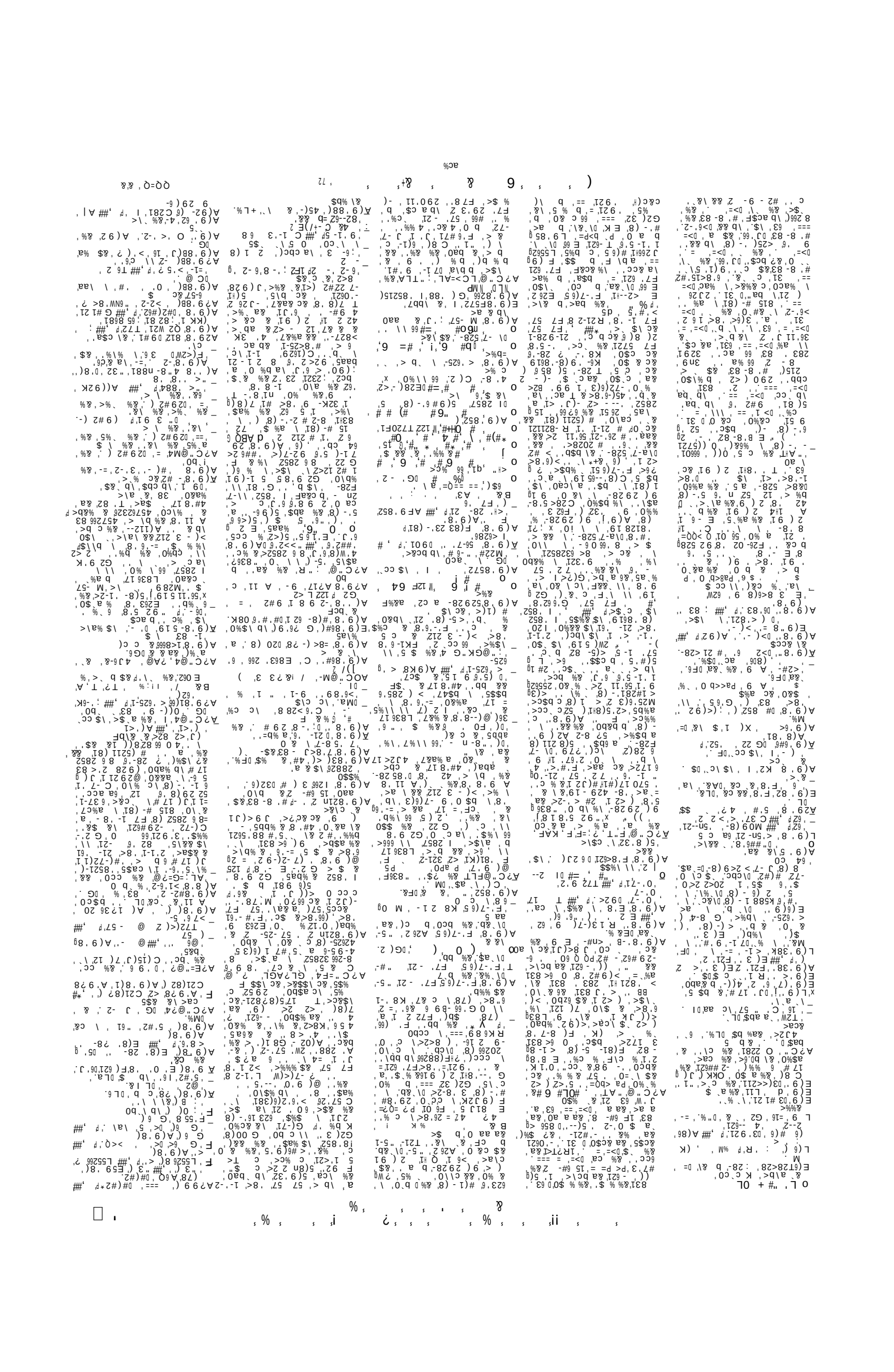

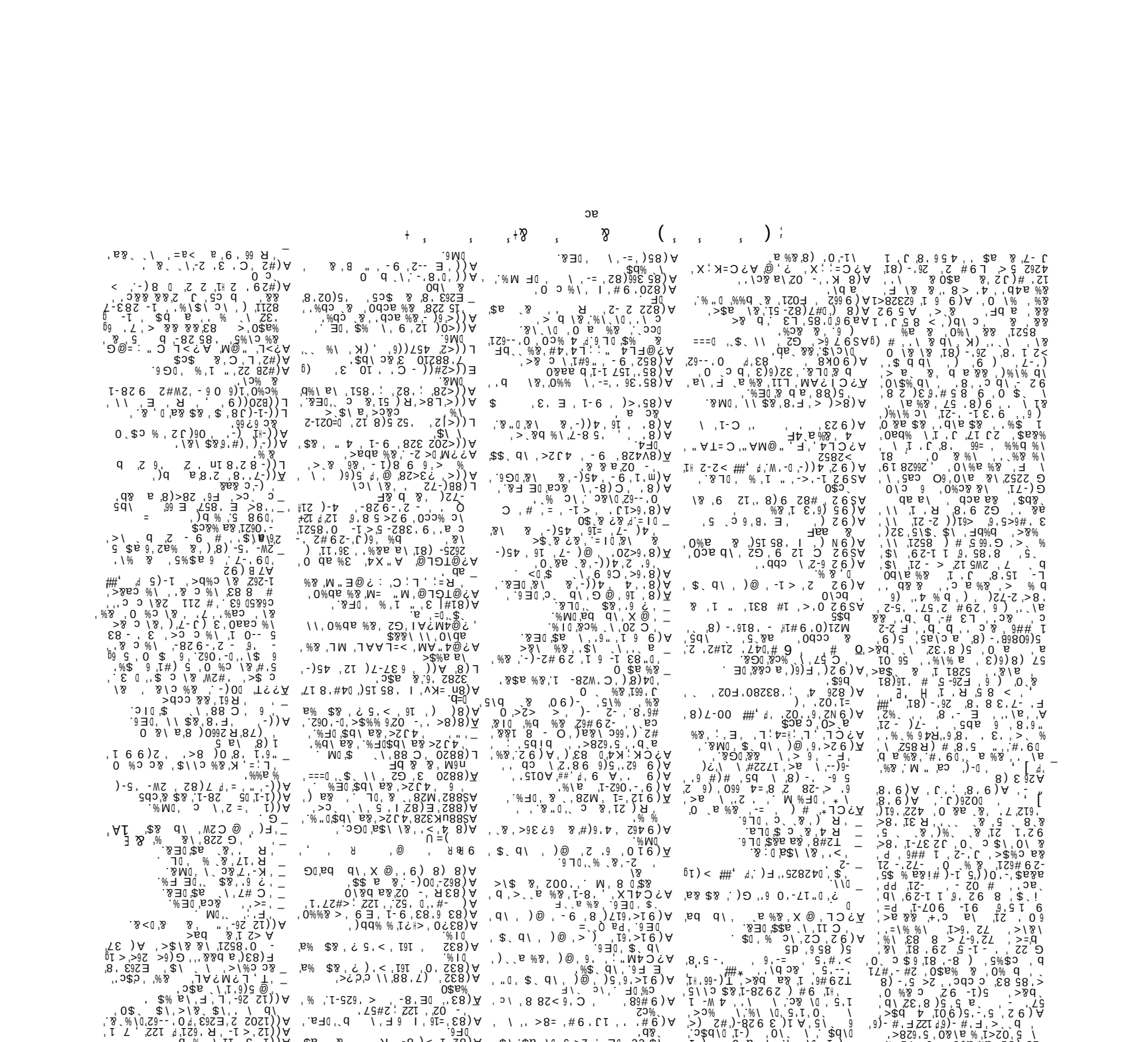

: (#2 '@ F \b ccᾳDl&. A(1'6O'7'D' - 1-'ᵖ 122 ?F' 2 '' A(10'57 A(1'6O' A(102 2(8 = 2' \ c ' DM A(1-1K<'@(\b '$ᾳ DF Mᾳ.' \ cb%< A(10 1' A(5 ' R ' &' aᾳ D$&. A(1 (' 9 = 2', %%k' A(4'R1'&'%b&'DE A(15ᾳ7(7.' ! 'ᵖ 122 A 12 8(' A?4ᾳFL ';=@K4' D#7 6(l(#72 %% cᾳ 0' 0 & %% bD' A(4'2 37'-%ab$? A(#(' J '.'&%c\ '' A((c(2ᵖ ,'## ?#C(2' &$ᾳ< _ (K@(\b '$ᾳ DM6.' \b' A ^(#82 #1' 1-2'9ᾳ17 #1' 92'ᾳᾳ' &ᾳA$ 0 bO'DK02.' O ' # D;(<32;' \a'a$5 A?4' ,bc' $ ᾳᾳ^CO@M'DT72'I' ;'ᾳᾳ' A##' 8'52'c\$ '' \b'$$'D$ᾳᾳ* A(1' ,2 ' (<'ᵖ ,##'A(11 A14' ,' =F=L@' & c\'5P \b' ^$\' ,(' \b'$$F &$ᾳ A(A(1'2 4-'ᵖ ,##'A(G7'4- G.' A(n 2'1;'C2'\ % ' L ' A(n 2'03'92'c %$ z' A(n 20'82'L'\$ cc'D'a. A(1'4-'& \ c< \ ;'a' <'(K A(n 2 ' (' I '\c cacO' A#1'81'1 'b cc'D$.' A(n 2 ' 6' 5n 21' " 9 ' 5(9-2'<2'% 0 A(n 2 ' - L '/;'8<21.'\$' A(n 2 ' E'<'6(5F7(' (4-(A(1' ,"6'\'\ a$'D$ᾳ. A(%%6<'#(2- \' b$'<f1'- 2 _ '=8<'& cc$' _ ' ," 5' _ ' C?'\' aᾳ' DG&. _ ' %3628' 4((-'& \'' D'%.pᵖ _ ' 5'#2'"63'\ a % DM6. A?4' 9 - 'ᵖ6#1'&%22<'0 2 _ ' 0 3 8(4'ᵖ,##4J22-'0 2 A(1'?D(- 'ᵖ,##4J22-'0 2 _ ' 8(861'\a'a'c< A(Oq1'4J -8'&!& 'ᵖ+1\' A5 <'9 'K6<29'-' , A(6'=8< '\ %ca'DI .' A(5'>(-'ᵖ,##A(K2'' A(6< 6'\'a (' A(' ,L'@A=F'&%cᾳ'$ 'b< _ ' a'0 _ ' ,L=@A4T' ,') , K G ' "CL4' &% cᾳb' _ ' 8' 9 _ \b'G '6' , ' , , ,

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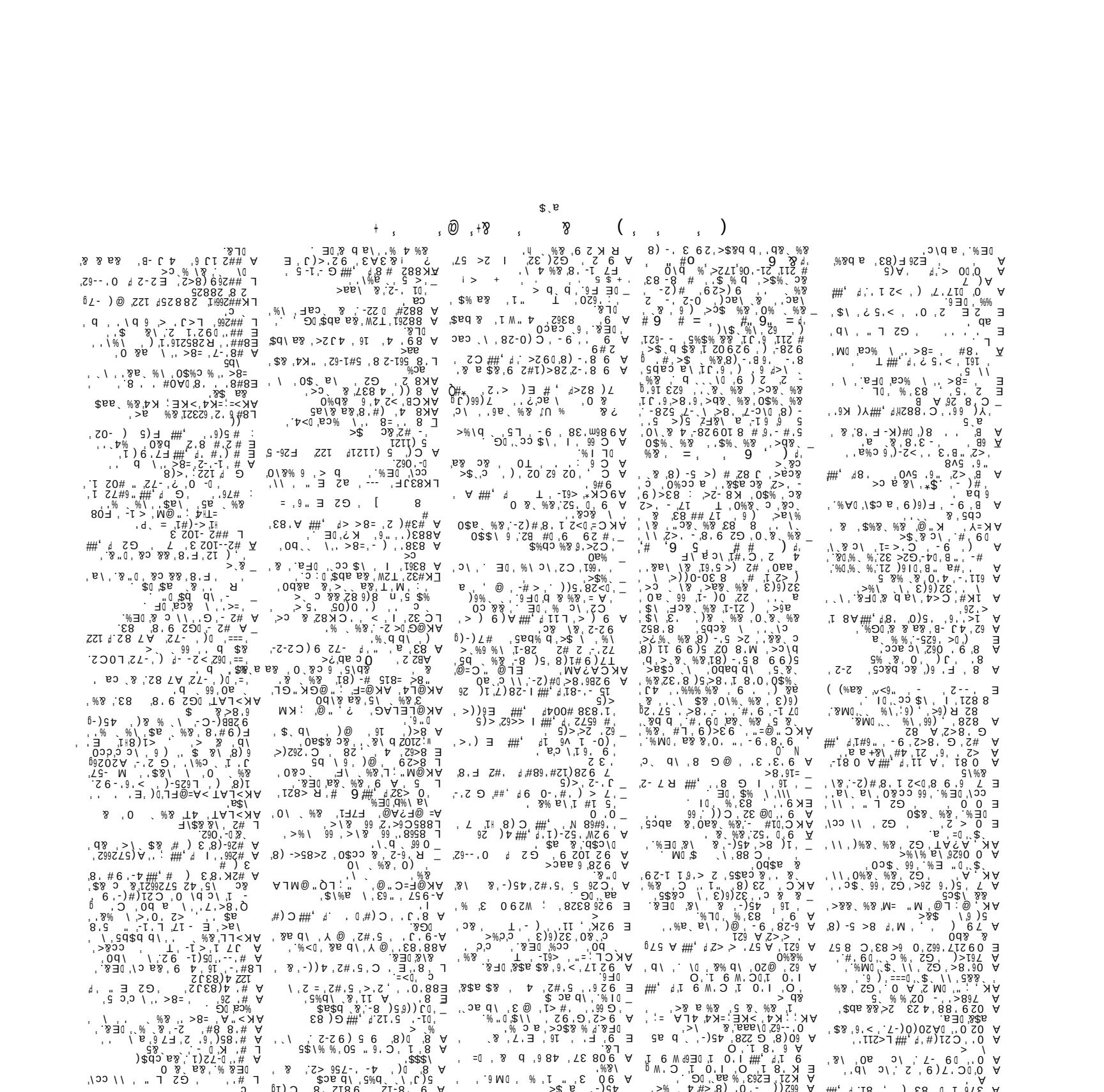

L ###-102 3' 7&' a2 '%' A 17 (<'@ X'\b baDE%.' ;.6.' aa&'
A 1'(' | '8p(1' M(8 8 nK2' _ 'F('R 1'\ &&DE F%. A 1(28' 6' 2' 4J2<' &a \b$ \ C5
L ## 8'L'\b'b'$O \ \O ' 3'- (8'157292? 9 '[B4 :+:: '\1-' 2' %'&'D:=?,' \\ &$' 5'8'6 L ## 8'L'\b'b'$O
O '(8&& \'K _ '&%'a&'c'\ ,' 66 &a%5' && %5' A 17 ' 66'C('\ $DL&.' A 17 ' 66'C('\ $DL&.'
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L 15K 9 '"63'P ,##M286 1' &'(' ' 6'&' 8(' ' ' 4'-'&% ^ a<' a'(' ' 4'-'&% ^ a<'
L 15K 9 '"63'P ,##M286 1' &'(' ' 6'&' 8(' ' ' 4'-'&% ^ a<'
O ((9 ,F29(1'\a&%< _ 'F29(1'\a&%< 4'8<1' 0 82'\\' ,'F29 ,G2 ' &%O' _ 'F29 ,G2 ' &%O'
F 5'8 ,2'G2'&% ^ a<' _ 'F29 ,G2 ' &%O' _ 'F29 ,G2 ' &%O'
L ## 82'6' 2'G2'&% ^ a<' _ 'F29 ,G2 ' &%O' _ 'F29 ,G2 ' &%O'
L 17&8' <61- =8< '%ca' A 17 ' 2' R 1'& c \ ,' 4'8<1' 0 82'\\' A 17 ' 2' R 1'& c \ ,' 4'8<1' 0 82'\\'
A 12'8' &a'DF%. A 17 ' 2' R 1'& c $DE . # 0617 83' 7(12' &$ %&b5' A 17 ' 2' R 1'& c $DE . # 0617 83' 7(12' &$ %&b5'
A K4A:;'4'=-'&% ^ a<' R7 1-62'& &DI%' 472 6<26<5(662& (81& '&%'' A 1'68'G'\\c'&DM. A 1'68'G'\\c'&DM.
A 12'8' &a'DF%. A 17 ' 2' R 1'& c $DE . # 0617 83' 7(12' &$ %&b5' A 17 ' 2' R 1'& c $DE . # 0617 83' 7(12' &$ %&b5'
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L 17'9D' ? 257' b c' 4'8<1' 0 82'\\' A 17 ' <61- =8< '%ca' A 17 ' 2' R 1'& c $DE . # 0617 83' 7(12' &$ %&b5'
L 8#-' 2' D 257' b c' 4'8<1' 0 82'\\' A 17 ' <61- =8< '%ca' A 17 ' 2' R 1'& c $DE . # 0617 83' 7(12' &$ %&b5'
_ '<2'\ 0'8'%$a%. A 12'8' &a'DF%. A 12'8' &a'DF%. A 12'8' &a'DF%. A 12'8' &a'DF%.
L '67'4K'@F'\b cc'DE6. A 17'G'\\c &DE . A 17'G'\\c &DE . A 17'G'\\c &DE . A 17'G'\\c &DE .
_ M 1- 5-F(856 A =F" 'AM'&&'\ cO 'a a%' A 17'G'\\c &DE . A 17'G'\\c &DE . A 17'G'\\c &DE .
_ 'R 66 '9'8 \a' A 1(83 ''0< '625-'% % '5' A 1#2 '4 1'b &'=' 'E . A 1(83 ''0< '625-'% % '5' A 1#2 '4 1'b &'=' 'E .
A 17'G'\\c &DE . A 1 >' -'9- ' 1' % '%O A 1 >' -'9- ' 1' % '%O A 1 >' -'9- ' 1' % '%O A 1 >' -'9- ' 1' % '%O
_ 32(6(3'\a'\k A 1#8 '4 1'b &'=' 'E . A 1#8 '4 1'b &'=' 'E . A 1#8 '4 1'b &'=' 'E . A 1#8 '4 1'b &'=' 'E .
_ '@ X'\b baX&. A 11' C257('a'c O %'$<'\ %'\< A 11' 9-'C'\'C & D&&. A 11' 9-'C'\'C & D&&. A 11' 9-'C'\'C & D&&. A 11' 9-'C'\'C & D&&.
_ '6' 2 C 88'\ $DE . A 11 ' ##'A 1' A 11 ' ##'A 1' A 11 ' ##'A 1' A 11 ' ##'A 1'
_ '6' 2 C 88'\ $DM L A 11 ' ##'A 1' A 11 ' ##'A 1' A 11 ' ##'A 1' A 11 ' ##'A 1'
L 17O ((= 2'c\ b'D9'#.' A 11 ' ##'A 1' A 11 ' ##'A 1' A 11 ' ##'A 1' A 11 ' ##'A 1'
&& c q* A 17528-2 ' 8'\ a 'DF&. A 17'F - 'C 88'\ $DM A 17'F - 'C 88'\ $DM A 17'F - 'C 88'\ $DM A 17'F - 'C 88'\ $DM
x' C ' 'D17#'4 &a'' & b'\%0 A 6 '16'>'5\ b&$5 A 6 '16'>'5\ b&$5 A 6 '16'>'5\ b&$5 A 6 '16'>'5\ b&$5
L 6 'DA (''# 852'(' A 11. && %'' $'' && %'' $'' && %'' $'' && %'' $''
_ DE&. A 28 17'5'#2'45(-'& \&' A 28 17'5'#2'45(-'& \&' A 28 17'5'#2'45(-'& \&' A 28 17'5'#2'45(-'& \&'
L 17O2' 83' D21-K6'.\&' L <0''A26<7 _ ';--62'1-'\ F'78=1'b %$ L <0''A26<7 _ ';--62'1-'\ F'78=1'b %$ L <0''A26<7 _ ';--62'1-'\ F'78=1'b %$ L <0''A26<7 _ ';--62'1-'\ F'78=1'b %$
%ac5 _ 'D 2'-'1-'\ F'78=1'b %$ %ac5 _ 'D 2'-'1-'\ F'78=1'b %$ %ac5 _ 'D 2'-'1-'\ F'78=1'b %$ %ac5 _ 'D 2'-'1-'\ F'78=1'b %$
L 17O ((= 2'c\ b'D9'#.' A 11. && %'' $'' && %'' $'' && %'' $'' && %'' $''
L 6 'DA (''# 852'(' A 11. && %'' $'' && %'' $'' && %'' $'' && %'' $''
A 17528-2 ' 8'\ a 'DF&. A 17'F - 'C 88'\ $DM A 17'F - 'C 88'\ $DM A 17'F - 'C 88'\ $DM A 17'F - 'C 88'\ $DM
_ 'F 22 ' ' $ && &a'OF M . _ 'F 22 ' ' $ && &a'OI . _ 'F 22 ' ' $ && &a'OI . _ 'F 22 ' ' $ && &a'OI .
_ 'F 22 ' ' ? 6'' && _ 'F 22 ' ' ? 6'' && _ 'F 22 ' ' ? 6'' && _ 'F 22 ' ' ? 6'' &&
_ DF6. _ DE . _ DE . _ DE .
_ 'F 22 ' ' R1' & 'C $ _ 'F 22 ' ' R1' & 'C $ _ 'F 22 ' ' R1' & 'C $ _ 'F 22 ' ' R1' & 'C $
_ 'F 22 ' ' $ && &a'OF M . _ 'F 22 ' ' $ && &a'OI . _ 'F 22 ' ' $ && &a'OI . _ 'F 22 ' ' $ && &a'OI .
_ 'F 22 ' ' F#6('a &&' 0', %. _ 'F 22 ' ' F#6('a &&' 0', %. _ 'F 22 ' ' F#6('a &&' 0', %. _ 'F 22 ' ' F#6('a &&' 0', %.
_ 'F(' ' 8'\ a 'DFb. _ 'F(' ' 8'\ a 'DFb. _ 'F(' ' 8'\ a 'DFb. _ 'F(' ' 8'\ a 'DFb.
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_ DE . _ DE . _ DE . _ DE .
_ 'F 22 ' ' ?2C'('&$ '"DM%. _ 'F 22 ' ' ?2C'('&$ '"DM%. _ 'F 22 ' ' ?2C'('&$ '"DM%. _ 'F 22 ' ' ?2C'('&$ '"DM%.
_ 'F 22 ' ' R1' & 'C $ _ 'F 22 ' ' R1' & 'C $ _ 'F 22 ' ' R1' & 'C $ _ 'F 22 ' ' R1' & 'C $
_ DE . _ DE . _ DE . _ DE .
A 17F --2 1'0' @ 4 R'&a' A 17F --2 1'0' @ 4 R'&a' A 17F --2 1'0' @ 4 R'&a' A 17F --2 1'0' @ 4 R'&a'
&c'\ DF% &a &c'<' &c'\ DF% &a &c'<' &c'\ DF% &a &c'<' &c'\ DF% &a &c'<'
AK4 ,ML@' @(-7'8-1' &%' AK4 ,ML@' @(-7'8-1' &%' AK4 ,ML@' @(-7'8-1' &%' AK4 ,ML@' @(-7'8-1' &%'
A 1728 '002 =' ('C'\c' A 1728 '002 =' ('C'\c' A 1728 '002 =' ('C'\c' A 1728 '002 =' ('C'\c'
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L 1'0 '52 &%.'ab< L 1'0 '52 &%.'ab< L 1'0 '52 &%.'ab< L 1'0 '52 &%.'ab<
A 12'8 ' 4'=-'&% ^ a<' R7 1-62'& &DI%' 472 6<26<5(662& (81& '&%'' A 1'68'G'\\c'&DM. A 1'68'G'\\c'&DM.
_ &$(' F2 ' ,##M286 1' &'(' ' 6'&' 8(' ' ' 4'-'&% ^ a<' R7 1-62'& &DI%' 472 6<26<5(662& (81& '&%'' A 1'68'G'\\c'&DM. A 1'68'G'\\c'&DM.
A K4A:;'4'=-'&% ^ a<' R7 1-62'& &DI%' 472 6<26<5(662& (81& '&%'' A 1'68'G'\\c'&DM. A 1'68'G'\\c'&DM.
L 1'0 '52 &%.'ab< L 1'0 '52 &%.'ab< L 1'0 '52 &%.'ab< L 1'0 '52 &%.'ab<
A 12'8' &a'DF%. A 17 ' 2' R 1'& c $DE . # 0617 83' 7(12' &$ %&b5' A 17 ' 2' R 1'& c $DE . # 0617 83' 7(12' &$ %&b5'
L 8#-' 2' D 257' b c' 4'8<1' 0 82'\\' A 17 ' <61- =8< '%ca' A 17 ' 2' R 1'& c $DE . # 0617 83' 7(12' &$ %&b5'
_ DG' %.'\a c< _ 'F29 ,G2 ' &%O' _ 'F29 ,G2 ' &%O' _ 'F29 ,G2 ' &%O' _ 'F29 ,G2 ' &%O'
L 17'9D' ? 257' b c' 4'8<1' 0 82'\\' A 17 ' <61- =8< '%ca' A 17 ' 2' R 1'& c $DE . # 0617 83' 7(12' &$ %&b5'
L 8#-' 2' D 257' b c' 4'8<1' 0 82'\\' A 17 ' <61- =8< '%ca' A 17 ' 2' R 1'& c $DE . # 0617 83' 7(12' &$ %&b5'
_ '<2'\ 0'8'%$a%. A 12'8' &a'DF%. A 12'8' &a'DF%. A 12'8' &a'DF%. A 12'8' &a'DF%.
L '67'4K'@F'\b cc'DE6. A 17'G'\\c &DE . A 17'G'\\c &DE . A 17'G'\\c &DE . A 17'G'\\c &DE .
_ M 1- 5-F(856 A =F" 'AM'&&'\ cO 'a a%' A 17'G'\\c &DE . A 17'G'\\c &DE . A 17'G'\\c &DE . A 17'G'\\c &DE .
_ 'R 66 '9'8 \a' A 1(83 ''0< '625-'% % '5' A 1#2 '4 1'b &'=' 'E . A 1(83 ''0< '625-'% % '5' A 1#2 '4 1'b &'=' 'E .
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_ '6' 2 C 88'\ $DM L A 11 ' ##'A 1' A 11 ' ##'A 1' A 11 ' ##'A 1' A 11 ' ##'A 1'
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%ac5 _ 'D 2'-'1-'\ F'78=1'b %$ %ac5 _ 'D 2'-'1-'\ F'78=1'b %$ %ac5 _ 'D 2'-'1-'\ F'78=1'b %$ %ac5 _ 'D 2'-'1-'\ F'78=1'b %$
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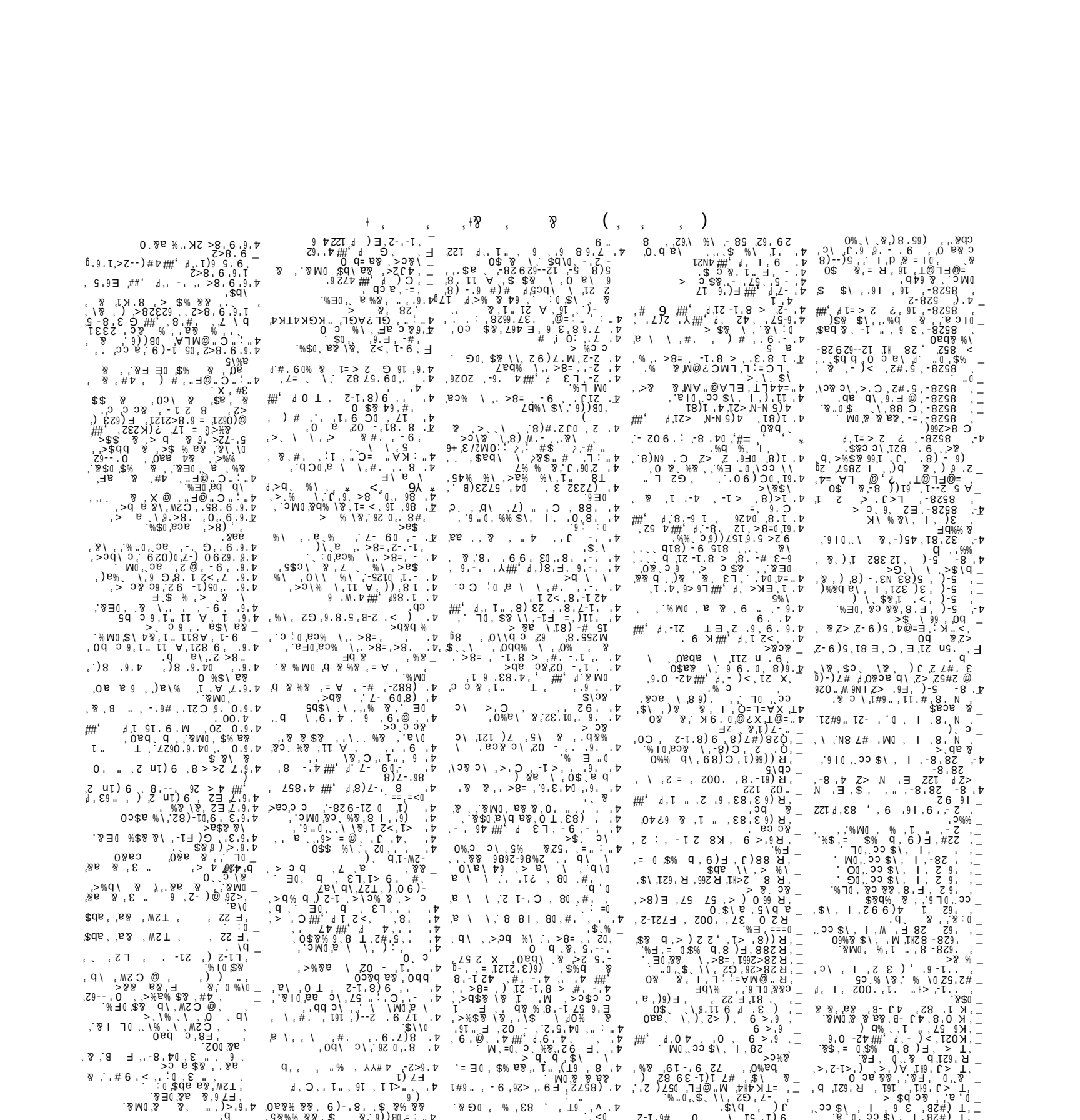

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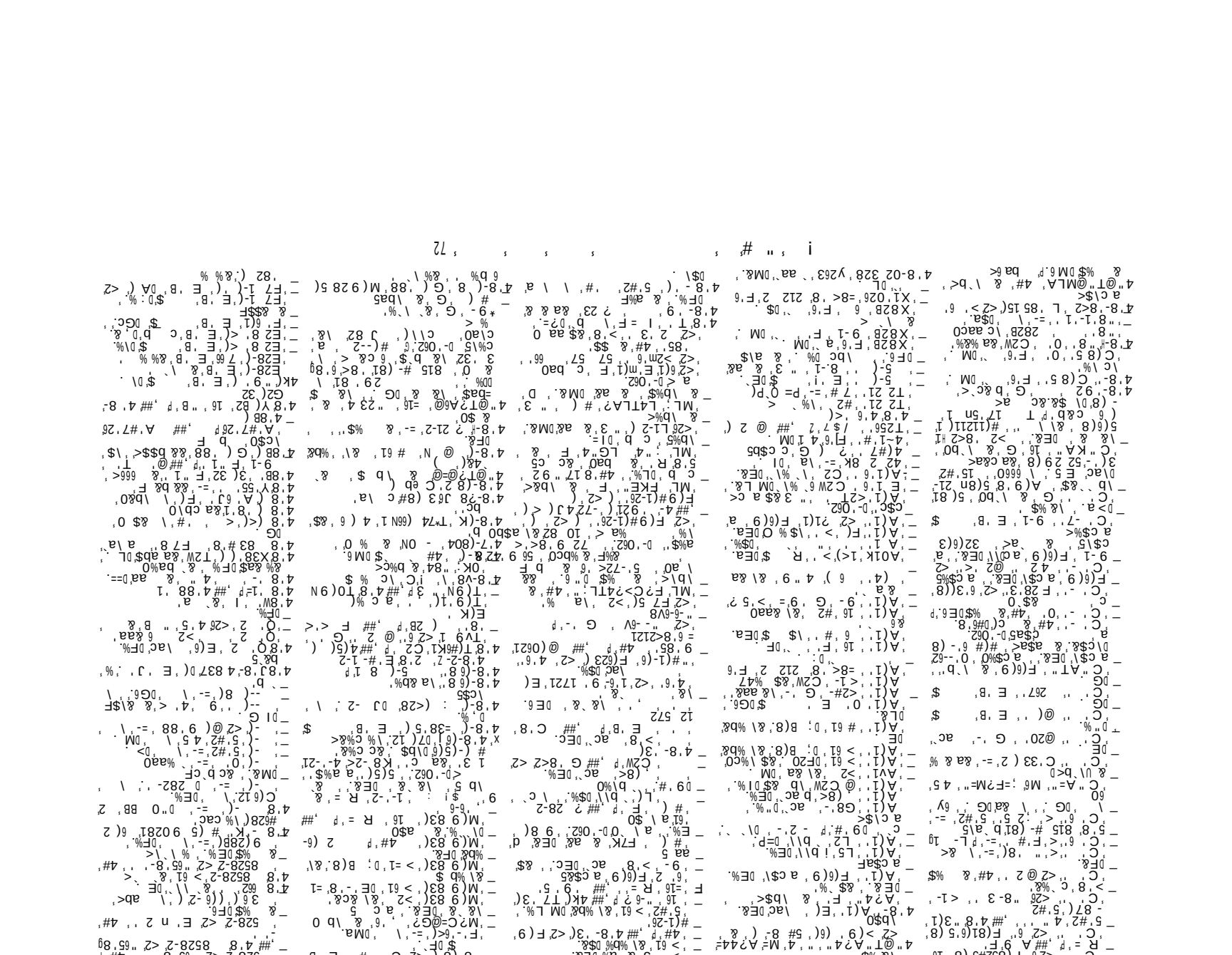

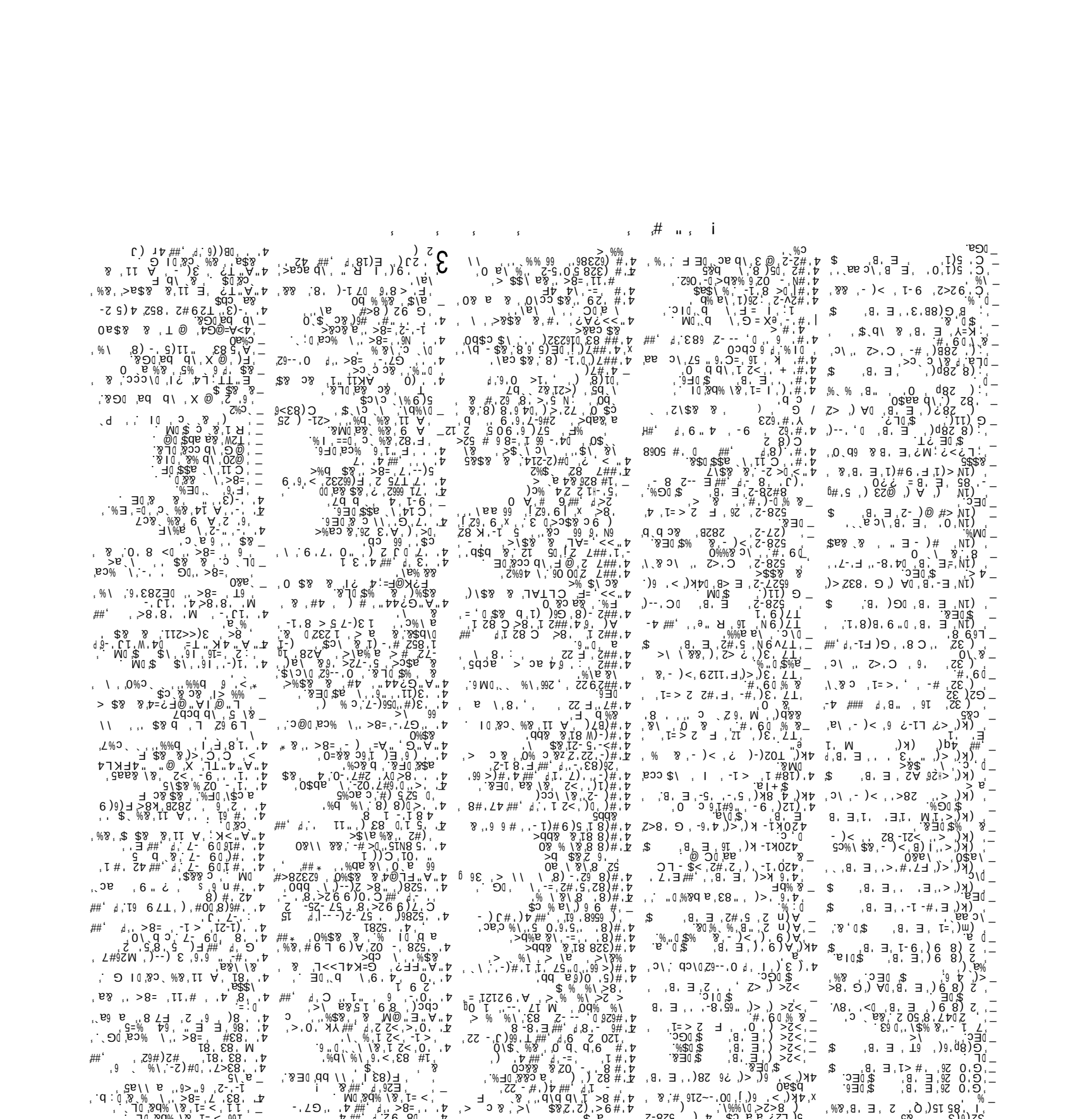

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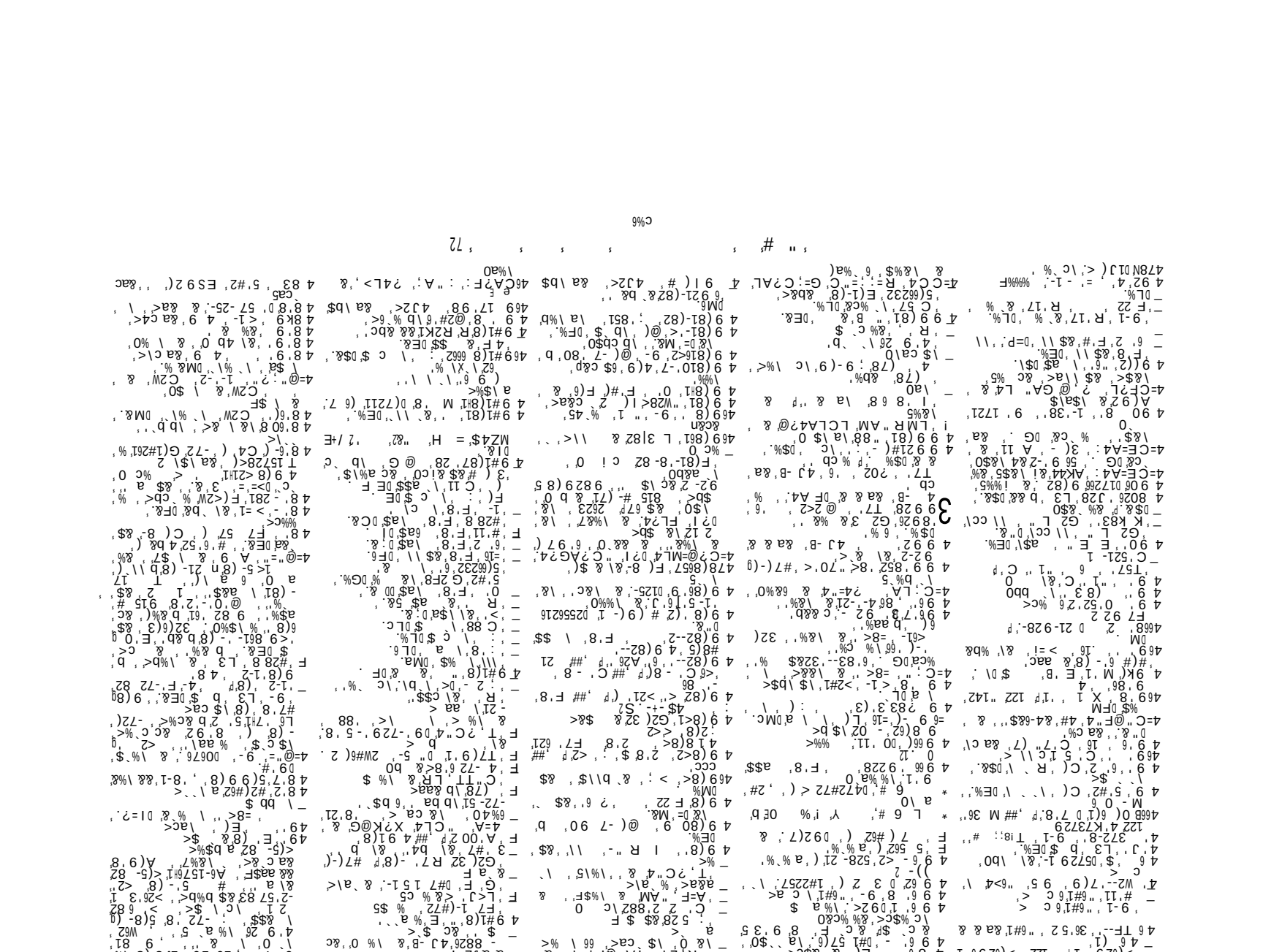

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4 #6J21 ' 6' 2' F'8' \ )b$'
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46#((-'> =1'&\ %b&'DM ' 46#((-'> =1'&\ %b&'DM ' 46#((-'> =1'&\ %b&'DM ' 46#((-'> =1'&\ %b&'DM '
4 #6J21 ' 6' 2' F'8' \ )b$' 4 #6J21 ' 6' 2' F'8' \ )b$' 4 #6J21 ' 6' 2' F'8' \ )b$' 4 #6J21 ' 6' 2' F'8' \ )b$'
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4 - 17'8'F7 8''a \a''D .' 4 - 17'8'F7 8''a \a''D .' 4 - 17'8'F7 8''a \a''D .' 4 - 17'8'F7 8''a \a''D .'
4 16'J ' 23'? ,'' 4 16'J ' 23'? ,'' 4 16'J ' 23'? ,'' 4 16'J ' 23'? ,''
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4 #'12 ' 6 ' =8< ' \ %ca'D#4.' 4 #'12 ' 6 ' =8< ' \ %ca'D#4.' 4 #'12 ' 6 ' =8< ' \ %ca'D#4.' 4 #'12 ' 6 ' =8< ' \ %ca'D#4.'
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4 7'9 ' ']'07(12'\% c% <' 4 7'9 ' ']'07(12'\% c% <' 4 7'9 ' ']'07(12'\% c% <' 4 7'9 ' ']'07(12'\% c% <'
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4 F7A' ,## 4 'T' 9 '8 ' =16' 4 F7A' ,## 4 'T' 9 '8 ' =16' 4 F7A' ,## 4 'T' 9 '8 ' =16' 4 F7A' ,## 4 'T' 9 '8 ' =16'
,26\'5'p ,## ' 2 2 '' 3 ' g ,26\'5'p ,## ' 2 2 '' 3 ' g ,26\'5'p ,## ' 2 2 '' 3 ' g ,26\'5'p ,## ' 2 2 '' 3 ' g
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\ c0 \ %a'GC . 'a $ \ c0 \ %a'GC . 'a $ \ c0 \ %a'GC . 'a $ \ c0 \ %a'GC . 'a $
4 #'7'8 (9'2 \ C0 ' &&< 4 #'7'8 (9'2 \ C0 ' &&< 4 #'7'8 (9'2 \ C0 ' &&< 4 #'7'8 (9'2 \ C0 ' &&<
<2-2 9 7-'(8'& (1 3g <2-2 9 7-'(8'& (1 3g <2-2 9 7-'(8'& (1 3g <2-2 9 7-'(8'& (1 3g
8 &&'83'& c\ ' a c0 8 &&'83'& c\ ' a c0 8 &&'83'& c\ ' a c0 8 &&'83'& c\ ' a c0
4 6(8'9- '>'6'f ## ' 2 9 (#' 4 6(8'9- '>'6'f ## ' 2 9 (#' 4 6(8'9- '>'6'f ## ' 2 9 (#' 4 6(8'9- '>'6'f ## ' 2 9 (#'
46#6(821 - 02'& \b$(46#6(821 - 02'& \b$(46#6(821 - 02'& \b$(46#6(821 - 02'& \b$(
46 6#K=" 3'f ,## 4' #8& 46 6#K=" 3'f ,## 4' #8& 46 6#K=" 3'f ,## 4' #8& 46 6#K=" 3'f ,## 4' #8&
4 1' ,"81'f ,## 4 112 4 1' ,"81'f ,## 4 112 4 1' ,"81'f ,## 4 112 4 1' ,"81'f ,## 4 112
4 1'02- 4 9'\ b'+2=. 4 1'02- 4 9'\ b'+2=. 4 1'02- 4 9'\ b'+2=. 4 1'02- 4 9'\ b'+2=.
4=4":' ,'LC>' & \ =' 7 \$ 4=4":' ,'LC>' & \ =' 7 \$ 4=4":' ,'LC>' & \ =' 7 \$ 4=4":' ,'LC>' & \ =' 7 \$
L3 ' ,## 47'8 L3 ' ,## 47'8 L3 ' ,## 47'8 L3 ' ,## 47'8
\$O' 8'#6'1-2 83&\ c' \$O' 8'#6'1-2 83&\ c' \$O' 8'#6'1-2 83&\ c' \$O' 8'#6'1-2 83&\ c'
4 1'9N8'4#'& %$ DM L&. 4 1'9N8'4#'& %$ DM L&. 4 1'9N8'4#'& %$ DM L&. 4 1'9N8'4#'& %$ DM L&.
4 1'#(8 4#'& ## '69 <N8' 4 1'#(8 4#'& ## '69 <N8' 4 1'#(8 4#'& ## '69 <N8' 4 1'#(8 4#'& ## '69 <N8'
461' D1- ' \ &<' c \% 461' D1- ' \ &<' c \% 461' D1- ' \ &<' c \% 461' D1- ' \ &<' c \%
(8'(8F "1'\ bas' (8'(8F "1'\ bas' (8'(8F "1'\ bas' (8'(8F "1'\ bas'
(012 '- (81'6 ' 2 (< (9'E2B3'6D\b$ 'a (012 '- (81'6 ' 2 (< (9'E2B3'6D\b$ 'a (012 '- (81'6 ' 2 (< (9'E2B3'6D\b$ 'a (012 '- (81'6 ' 2 (< (9'E2B3'6D\b$ 'a
& c' ,' & c'< 5(6'K (& c' ,' & c'< 5(6'K (& c' ,' & c'< 5(6'K (& c' ,' & c'< 5(6'K (
4 122' ' 'p ,## 4N 21 $ ' &a' ab'D 2' C 88' \ ' 4 122' ' 'p ,## 4N 21 $ ' &a' ab'D 2' C 88' \ ' 4 122' ' 'p ,## 4N 21 $ ' &a' ab'D 2' C 88' \ ' 4 122' ' 'p ,## 4N 21 $ ' &a' ab'D 2' C 88' \ '
4 12'8 ' T' ' 'I ,## 4N 21 4 12'8 ' T' ' 'I ,## 4N 21 4 12'8 ' T' ' 'I ,## 4N 21 4 12'8 ' T' ' 'I ,## 4N 21
4 A'32 <(F(2 62'D<'8 52' 4 A'32 <(F(2 62'D<'8 52' 4 A'32 <(F(2 62'D<'8 52' 4 A'32 <(F(2 62'D<'8 52'
4 -2 'D\ b%'&C ' 4 -2 'D\ b%'&C ' 4 -2 'D\ b%'&C ' 4 -2 'D\ b%'&C '
1 ' 1-'-2 '=8< '&a \ c$ 1 ' 1-'-2 '=8< '&a \ c$ 1 ' 1-'-2 '=8< '&a \ c$ 1 ' 1-'-2 '=8< '&a \ c$
\ c< \ c< \ c< \ c<
4=AA' ,'&'A' K '& 6V<c' \ 4=AA' ,'&'A' K '& 6V<c' \ 4=AA' ,'&'A' K '& 6V<c' \ 4=AA' ,'&'A' K '& 6V<c' \
F <4-' =8< '' & ` '' F <4-' =8< '' & ` '' F <4-' =8< '' & ` '' F <4-' =8< '' & ` ''
%ca'DI .' %ca'DI .' %ca'DI .' %ca'DI .'
4 1'37' 4 1'37' 4 1'37' 4 1'37'
4 1'37' 7 K<' =8< '' 4 1'37' 7 K<' =8< '' 4 1'37' 7 K<' =8< '' 4 1'37' 7 K<' =8< ''
c%\'< c%\'< c%\'< c%\'<
4 6(8'\C \ C89 ' 3('D 52'7(12'\%' 4 6(8'\C \ C89 ' 3('D 52'7(12'\%' 4 6(8'\C \ C89 ' 3('D 52'7(12'\%' 4 6(8'\C \ C89 ' 3('D 52'7(12'\%'
_4 ' 6' 3('D 52'7(12'\%' _4 ' 6' 3('D 52'7(12'\%' _4 ' 6' 3('D 52'7(12'\%' _4 ' 6' 3('D 52'7(12'\%'
4 6'9 ' ' =8< '' 4 6'9 ' ' =8< '' 4 6'9 ' ' =8< '' 4 6'9 ' ' =8< ''
D L D L D L D L
4 7 79 ' =8< '' \ %ca'DG ' 4 7 79 ' =8< '' \ %ca'DG ' 4 7 79 ' =8< '' \ %ca'DG ' 4 7 79 ' =8< '' \ %ca'DG '
& \ a< ' \b \cc5 & \ a< ' \b \cc5 & \ a< ' \b \cc5 & \ a< ' \b \cc5
5'8'6' =8< ' 4 \ a' 5'8'6' =8< ' 4 \ a' 5'8'6' =8< ' 4 \ a' 5'8'6' =8< ' 4 \ a'
' a 0' %&%' 4=A ,'=@M ' a 0' %&%' 4=A ,'=@M ' a 0' %&%' 4=A ,'=@M '
\'a(\ a5 \'a(\ a5 \'a(\ a5 \'a(\ a5
4 7'6 ' ' =8< '' 4 7'6 ' ' =8< '' 4 7'6 ' ' =8< '' 4 7'6 ' ' =8< ''
F 22 ' 21- ' F 22 ' 21- ' F 22 ' 21- ' F 22 ' 21-
>'f ,621' 4 ' 8<2 ' 16' >'f ,621' 4 ' 8<2 ' 16' >'f ,621' 4 ' 8<2 ' 16' >'f ,621' 4 ' 8<2 ' 16'
4 F7A' ,## 4 'T' 9 '8 ' =16' 4 F7A' ,## 4 'T' 9 '8 ' =16' 4 F7A' ,## 4 'T' 9 '8 ' =16' 4 F7A' ,## 4 'T' 9 '8 ' =16'
,26\'5'p ,## ' 2 2 '' 3 ' g ,26\'5'p ,## ' 2 2 '' 3 ' g ,26\'5'p ,## ' 2 2 '' 3 ' g ,26\'5'p ,## ' 2 2 '' 3 ' g
— 'B2811 — 'B2811 — 'B2811 — 'B2811
4 #'7'8 (3'L6 2 'E @ E' & c 4 #'7'8 (3'L6 2 'E @ E' & c 4 #'7'8 (3'L6 2 'E @ E' & c 4 #'7'8 (3'L6 2 'E @ E' & c
b!c< b!c< b!c< b!c<
4 #'7'8 (- 'F 'p ,## 4 '(7' 21 1 4 #'7'8 (- 'F 'p ,## 4 '(7' 21 1 4 #'7'8 (- 'F 'p ,## 4 '(7' 21 1 4 #'7'8 (- 'F 'p ,## 4 '(7' 21 1
4 #'7'8 (4 #'7'8 (4 #'7'8 (4 #'7'8 (
4 #'7'8 (6''\ \abD5 4 #'7'8 (6''\ \abD5 4 #'7'8 (6''\ \abD5 4 #'7'8 (6''\ \abD5
_ 'D1 8<' 8 81- 828-' b c'' _ 'D1 8<' 8 81- 828-' b c'' _ 'D1 8<' 8 81- 828-' b c'' _ 'D1 8<' 8 81- 828-' b c''
4 #'7'8 (- 'C 'p ,## 4 '(7' 21 1 4 #'7'8 (- 'C 'p ,## 4 '(7' 21 1 4 #'7'8 (- 'C 'p ,## 4 '(7' 21 1 4 #'7'8 (- 'C 'p ,## 4 '(7' 21 1
\ c0 \ %a'GC . 'a $ \ c0 \ %a'GC . 'a $ \ c0 \ %a'GC . 'a $ \ c0 \ %a'GC . 'a $
4 #'7'8 (9'2 \ C0 ' &&< 4 #'7'8 (9'2 \ C0 ' &&< 4 #'7'8 (9'2 \ C0 ' &&< 4 #'7'8 (9'2 \ C0 ' &&<
<2-2 9 7-'(8'& (1 3g <2-2 9 7-'(8'& (1 3g <2-2 9 7-'(8'& (1 3g <2-2 9 7-'(8'& (1 3g
8 &&'83'& c\ ' a c0 8 &&'83'& c\ ' a c0 8 &&'83'& c\ ' a c0 8 &&'83'& c\ ' a c0
4 6(8'9- '>'6'f ## ' 2 9 (#' 4 6(8'9- '>'6'f ## ' 2 9 (#' 4 6(8'9- '>'6'f ## ' 2 9 (#' 4 6(8'9- '>'6'f ## ' 2 9 (#'
46#6(821 - 02'& \b$(46#6(821 - 02'& \b$(46#6(821 - 02'& \b$(46#6(821 - 02'& \b$(
46 6#K=" 3'f ,## 4' #8& 46 6#K=" 3'f ,## 4' #8& 46 6#K=" 3'f ,## 4' #8& 46 6#K=" 3'f ,## 4' #8&
4 1' ,"81'f ,## 4 112 4 1' ,"81'f ,## 4 112 4 1' ,"81'f ,## 4 112 4 1' ,"81'f ,## 4 112
4 1'02- 4 9'\ b'+2=. 4 1'02- 4 9'\ b'+2=. 4 1'02- 4 9'\ b'+2=. 4 1'02- 4 9'\ b'+2=.
4=4":' ,'LC>' & \ =' 7 \$ 4=4":' ,'LC>' & \ =' 7 \$ 4=4":' ,'LC>' & \ =' 7 \$ 4=4":' ,'LC>' & \ =' 7 \$
L3 ' ,## 47'8 L3 ' ,## 47'8 L3 ' ,## 47'8 L3 ' ,## 47'8
\$O' 8'#6'1-2 83&\ c' \$O' 8'#6'1-2 83&\ c' \$O' 8'#6'1-2 83&\ c' \$O' 8'#6'1-2 83&\ c'
4 1'9N8'4#'& %$ DM L&. 4 1'9N8'4#'& %$ DM L&. 4 1'9N8'4#'& %$ DM L&. 4 1'9N8'4#'& %$ DM L&.
4 1'#(8 4#'& ## '69 <N8' 4 1'#(8 4#'& ## '69 <N8' 4 1'#(8 4#'& ## '69 <N8' 4 1'#(8 4#'& ## '69 <N8'
461' D1- ' \ &<' c \% 461' D1- ' \ &<' c \% 461' D1- ' \ &<' c \% 461' D1- ' \ &<' c \%
(8'(8F "1'\ bas' (8'(8F "1'\ bas' (8'(8F "1'\ bas' (8'(8F "1'\ bas'
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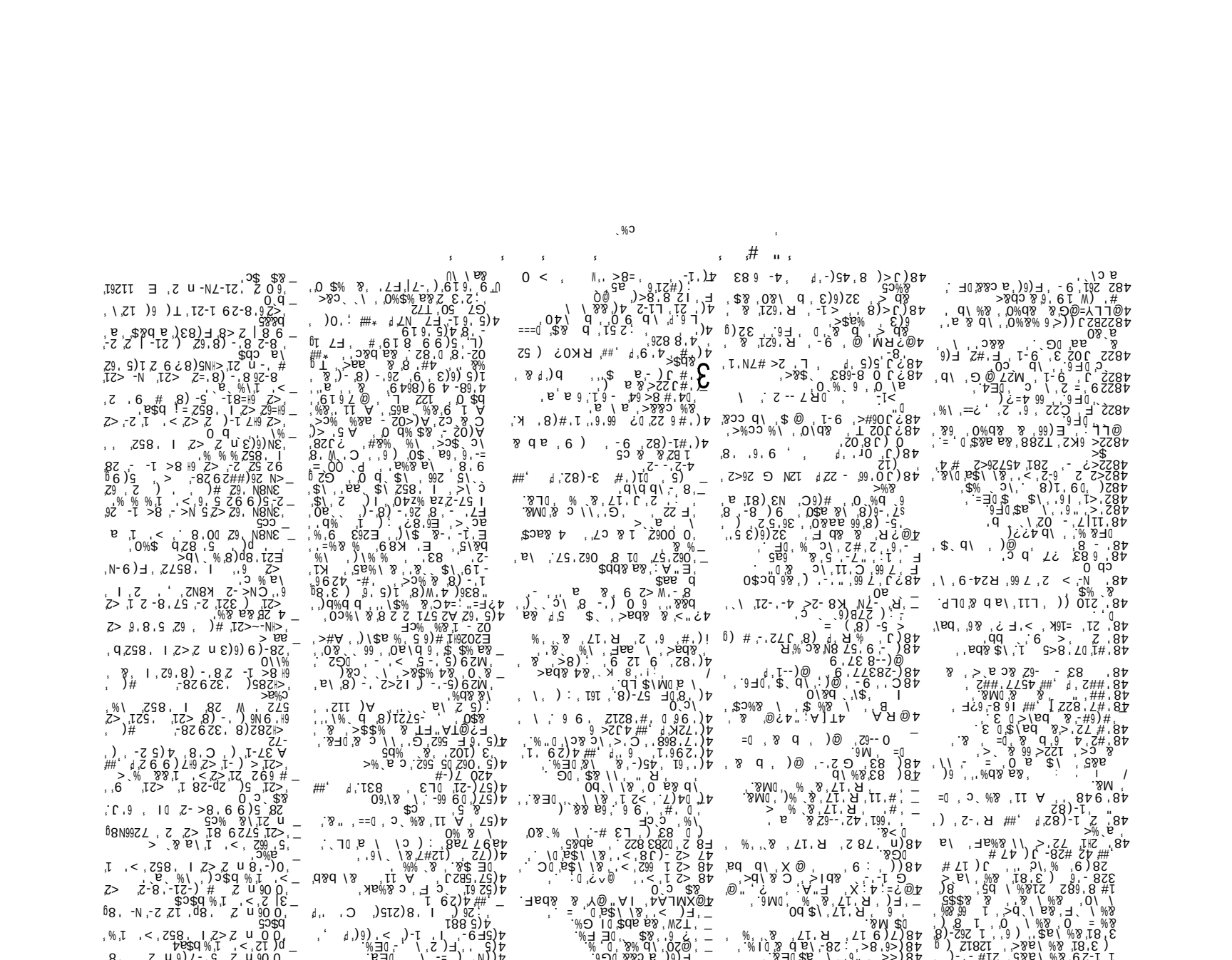
& c' ,' & c'< 5(6'K (& c' ,' & c'< 5(6'K (& c' ,' & c'< 5(6'K (& c' ,' & c'< 5(6'K (
4 122' ' 'p ,## 4N 21 $ ' &a' ab'D 2' C 88' \ ' 4 122' ' 'p ,## 4N 21 $ ' &a' ab'D 2' C 88' \ ' 4 122' ' 'p ,## 4N 21 $ ' &a' ab'D 2' C 88' \ ' 4 122' ' 'p ,## 4N 21 $ ' &a' ab'D 2' C 88' \ '
4612O8 ' T' ' 'I ,## 4N 21 4612O8 ' T' ' 'I ,## 4N 21 4612O8 ' T' ' 'I ,## 4N 21 4612O8 ' T' ' 'I ,## 4N 21
4 A'32 <(F(2 62'D<'8 52' 4 A'32 <(F(2 62'D<'8 52' 4 A'32 <(F(2 62'D<'8 52' 4 A'32 <(F(2 62'D<'8 52'
4 -2 'D\ b%'&C ' 4 -2 'D\ b%'&C ' 4 -2 'D\ b%'&C ' 4 -2 'D\ b%'&C '
1 ' 1-'-2 '=8< '&a \ c$ 1 ' 1-'-2 '=8< '&a \ c$ 1 ' 1-'-2 '=8< '&a \ c$ 1 ' 1-'-2 '=8< '&a \ c$
\ c< \ c< \ c< \ c<
4=AA' ,'&'A' K '& 6V<c' \ 4=AA' ,'&'A' K '& 6V<c' \ 4=AA' ,'&'A' K '& 6V<c' \ 4=AA' ,'&'A' K '& 6V<c' \
F <4-' =8< '' & ` '' F <4-' =8< '' & ` '' F <4-' =8< '' & ` '' F <4-' =8< '' & ` ''
%ca'DI .' %ca'DI .' %ca'DI .' %ca'DI .'
4 1'37' 4 1'37' 4 1'37' 4 1'37'
4 1'37' 7 K<' =8< '' 4 1'37' 7 K<' =8< '' 4 1'37' 7 K<' =8< '' 4 1'37' 7 K<' =8< ''
c%\'< c%\'< c%\'< c%\'<
4 6(8'\C \ C89 ' 3('D 52'7(12'\%' 4 6(8'\C \ C89 ' 3('D 52'7(12'\%' 4 6(8'\C \ C89 ' 3('D 52'7(12'\%' 4 6(8'\C \ C89 ' 3('D 52'7(12'\%'
_4 ' 6' 3('D 52'7(12'\%' _4 ' 6' 3('D 52'7(12'\%' _4 ' 6' 3('D 52'7(12'\%' _4 ' 6' 3('D 52'7(12'\%'
4 6'9 ' ' =8< '' 4 6'9 ' ' =8< '' 4 6'9 ' ' =8< '' 4 6'9 ' ' =8< ''
D L D L D L D L
4 7 79 ' =8< '' \ %ca'DG ' 4 7 79 ' =8< '' \ %ca'DG ' 4 7 79 ' =8< '' \ %ca'DG ' 4 7 79 ' =8< '' \ %ca'DG '
& \ a< ' \b \cc5 & \ a< ' \b \cc5 & \ a< ' \b \cc5 & \ a< ' \b \cc5
5'8'6' =8< ' 4 \ a' 5'8'6' =8< ' 4 \ a' 5'8'6' =8< ' 4 \ a' 5'8'6' =8< ' 4 \ a'
' a 0' %&%' 4=A ,'=@M ' a 0' %&%' 4=A ,'=@M ' a 0' %&%' 4=A ,'=@M '
\'a(\ a5 \'a(\ a5 \'a(\ a5 \'a(\ a5
4 7'6 ' ' =8< '' 4 7'6 ' ' =8< '' 4 7'6 ' ' =8< '' 4 7'6 ' ' =8< ''
F 22 ' 21- ' F 22 ' 21- ' F 22 ' 21- ' F 22 ' 21-
>'f ,621' 4 ' 8<2 ' 16' >'f ,621' 4 ' 8<2 ' 16' >'f ,621' 4 ' 8<2 ' 16' >'f ,621' 4 ' 8<2 ' 16'
4 F7A' ,## 4 'T' 9 '8 ' =16' 4 F7A' ,## 4 'T' 9 '8 ' =16' 4 F7A' ,## 4 'T' 9 '8 ' =16' 4 F7A' ,## 4 'T' 9 '8 ' =16'
,26\'5'p ,## ' 2 2 '' 3 ' g ,26\'5'p ,## ' 2 2 '' 3 ' g ,26\'5'p ,## ' 2 2 '' 3 ' g ,26\'5'p ,## ' 2 2 '' 3 ' g
— 'B2811 — 'B2811 — 'B2811 — 'B2811
4 #'7'8 (3'L6 2 'E @ E' & c 4 #'7'8 (3'L6 2 'E @ E' & c 4 #'7'8 (3'L6 2 'E @ E' & c 4 #'7'8 (3'L6 2 'E @ E' & c
b!c< b!c< b!c< b!c<
4 #'7'8 (- 'F 'p ,## 4 '(7' 21 1 4 #'7'8 (- 'F 'p ,## 4 '(7' 21 1 4 #'7'8 (- 'F 'p ,## 4 '(7' 21 1 4 #'7'8 (- 'F 'p ,## 4 '(7' 21 1
4 #'7'8 (4 #'7'8 (4 #'7'8 (4 #'7'8 (
4 #'7'8 (6''\ \abD5 4 #'7'8 (6''\ \abD5 4 #'7'8 (6''\ \abD5 4 #'7'8 (6''\ \abD5
_ 'D1 8<' 8 81- 828-' b c'' _ 'D1 8<' 8 81- 828-' b c'' _ 'D1 8<' 8 81- 828-' b c'' _ 'D1 8<' 8 81- 828-' b c''
4 #'7'8 (- 'C 'p ,## 4 '(7' 21 1 4 #'7'8 (- 'C 'p ,## 4 '(7' 21 1 4 #'7'8 (- 'C 'p ,## 4 '(7' 21 1 4 #'7'8 (- 'C 'p ,## 4 '(7' 21 1
\ c0 \ %a'GC . 'a $ \ c0 \ %a'GC . 'a $ \ c0 \ %a'GC . 'a $ \ c0 \ %a'GC . 'a $
4 #'7'8 (9'2 \ C0 ' &&< 4 #'7'8 (9'2 \ C0 ' &&< 4 #'7'8 (9'2 \ C0 ' &&< 4 #'7'8 (9'2 \ C0 ' &&<
<2-2 9 7-'(8'& (1 3g <2-2 9 7-'(8'& (1 3g <2-2 9 7-'(8'& (1 3g <2-2 9 7-'(8'& (1 3g
8 &&'83'& c\ ' a c0 8 &&'83'& c\ ' a c0 8 &&'83'& c\ ' a c0 8 &&'83'& c\ ' a c0
4 6(8'9- '>'6'f ## ' 2 9 (#' 4 6(8'9- '>'6'f ## ' 2 9 (#' 4 6(8'9- '>'6'f ## ' 2 9 (#' 4 6(8'9- '>'6'f ## ' 2 9 (#'
46#6(821 - 02'& \b$(46#6(821 - 02'& \b$(46#6(821 - 02'& \b$(46#6(821 - 02'& \b$(
46 6#K=" 3'f ,## 4' #8& 46 6#K=" 3'f ,## 4' #8& 46 6#K=" 3'f ,## 4' #8& 46 6#K=" 3'f ,## 4' #8&
4 1' ,"81'f ,## 4 112 4 1' ,"81'f ,## 4 112 4 1' ,"81'f ,## 4 112 4 1' ,"81'f ,## 4 112
4 1'02- 4 9'\ b'+2=. 4 1'02- 4 9'\ b'+2=. 4 1'02- 4 9'\ b'+2=. 4 1'02- 4 9'\ b'+2=.
4=4":' ,'LC>' & \ =' 7 \$ 4=4":' ,'LC>' & \ =' 7 \$ 4=4":' ,'LC>' & \ =' 7 \$ 4=4":' ,'LC>' & \ =' 7 \$
L3 ' ,## 47'8 L3 ' ,## 47'8 L3 ' ,## 47'8 L3 ' ,## 47'8
\$O' 8'#6'1-2 83&\ c' \$O' 8'#6'1-2 83&\ c' \$O' 8'#6'1-2 83&\ c' \$O' 8'#6'1-2 83&\ c'
4 1'9N8'4#'& %$ DM L&. 4 1'9N8'4#'& %$ DM L&. 4 1'9N8'4#'& %$ DM L&. 4 1'9N8'4#'& %$ DM L&.
4 1'#(8 4#'& ## '69 <N8' 4 1'#(8 4#'& ## '69 <N8' 4 1'#(8 4#'& ## '69 <N8' 4 1'#(8 4#'& ## '69 <N8'
461' D1- ' \ &<' c \% 461' D1- ' \ &<' c \% 461' D1- ' \ &<' c \% 461' D1- ' \ &<' c \%
(8'(8F "1'\ bas' (8'(8F "1'\ bas' (8'(8F "1'\ bas' (8'(8F "1'\ bas'
(012 '- (81'6 ' 2 (< (9'E2B3'6D\b$ 'a (012 '- (81'6 ' 2 (< (9'E2B3'6D\b$ 'a (012 '- (81'6 ' 2 (< (9'E2B3'6D\b$ 'a (012 '- (81'6 ' 2 (< (9'E2B3'6D\b$ 'a
& c' ,' & c'< 5(6'K (& c' ,' & c'< 5(6'K (& c' ,' & c'< 5(6'K (& c' ,' & c'< 5(6'K (
4 122' ' 'p ,## 4N 21 $ ' &a' ab'D 2' C 88' \ ' 4 122' ' 'p ,## 4N 21 $ ' &a' ab'D 2' C 88' \ ' 4 122' ' 'p ,## 4N 21 $ ' &a' ab'D 2' C 88' \ ' 4 122' ' 'p ,## 4N 21 $ ' &a' ab'D 2' C 88' \ '
4612O8 ' T' ' 'I ,## 4N 21 4612O8 ' T' ' 'I ,## 4N 21 4612O8 ' T' ' 'I ,## 4N 21 4612O8 ' T' ' 'I ,## 4N 21
4 A'32 <(F(2 62'D<'8 52' 4 A'32 <(F(2 62'D<'8 52' 4 A'32 <(F(2 62'D<'8 52' 4 A'32 <(F(2 62'D<'8 52'
4 -2 'D\ b%'&C ' 4 -2 'D\ b%'&C ' 4 -2 'D\ b%'&C ' 4 -2 'D\ b%'&C '
1 ' 1-'-2 '=8< '&a \ c$ 1 ' 1-'-2 '=8< '&a \ c$ 1 ' 1-'-2 '=8< '&a \ c$ 1 ' 1-'-2 '=8< '&a \ c$
\ c< \ c< \ c< \ c<
4=AA' ,'&'A' K '& 6V<c' \ 4=AA' ,'&'A' K '& 6V<c' \ 4=AA' ,'&'A' K '& 6V<c' \ 4=AA' ,'&'A' K '& 6V<c' \
F <4-' =8< '' & ` '' F <4-' =8< '' & ` '' F <4-' =8< '' & ` '' F <4-' =8< '' & ` ''
%ca'DI .' %ca'DI .' %ca'DI .' %ca'DI .'
4 1'37' 4 1'37' 4 1'37' 4 1'37'
4 1'37' 7 K<' =8< '' 4 1'37' 7 K<' =8< '' 4 1'37' 7 K<' =8< '' 4 1'37' 7 K<' =8< ''
c%\'< c%\'< c%\'< c%\'<
4 6(8'\C \ C89 ' 3('D 52'7(12'\%' 4 6(8'\C \ C89 ' 3('D 52'7(12'\%' 4 6(8'\C \ C89 ' 3('D 52'7(12'\%' 4 6(8'\C \ C89 ' 3('D 52'7(12'\%'
_4 ' 6' 3('D 52'7(12'\%' _4 ' 6' 3('D 52'7(12'\%' _4 ' 6' 3('D 52'7(12'\%' _4 ' 6' 3('D 52'7(12'\%'
4 6'9 ' ' =8< '' 4 6'9 ' ' =8< '' 4 6'9 ' ' =8< '' 4 6'9 ' ' =8< ''
D L D L D L D L
4 7 79 ' =8< '' \ %ca'DG ' 4 7 79 ' =8< '' \ %ca'DG ' 4 7 79 ' =8< '' \ %ca'DG ' 4 7 79 ' =8< '' \ %ca'DG '

49 02 -' (78ƒ ,## 49 02 -' (78ƒ ,## 49 02 -' (78ƒ ,##



4(5N-N K88N2882 <2' @(g 9'8<2' ba<
'6--N , 2 2,' , -1-n 2' 4-
<-2-2 10 &%$0
-(81\\ \0' 92<2 '6'8<6 5(8<6
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<'2\' 9 11(8' N- '83|21'
>',' &<' \$ b$<' \$ `a'\T
b\\'
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64 ' 3((< 2661J17 #P'
_ ';\"A@LM&4 $%b
<21' (28-'61 2-1 >'6<1 &'
4(52-'(-14(52-'(' ,
d5 ,
4(52-'(' ,' -7(' 1'4(52-'(' ,
4(5&8 "-6O 257-6c
5-'257 191' $a<' M25'q
6(3 2'c b$bO' L836'8<&c'
-(0221\% &' 9<-' (8'
-(81\\a$ F' #'1 (5 '-5
-72(' a b$bO' 72-'2 619
6'8572%&a'O' F(8 5 1i1'
\% \ O' 92<2 '6'8<6
4(5&8 "-6O 257-6c
5-'257 191' $a<' M25'q
6(3 2'c b$bO' L836'8<&c'
-(0229 28-' <F5- 82& ca''
-acb<' ,
4(5-8 k8I &%& 8 <' &a'c'$'f'
<21' #2 8- 21' 2-' 15 6#-2 1'
1 1121'E2 82& c$%O
#K 6(-2578 nK2' ' &'
%\O' D4(8'8 'L'>' ,&a'
<'2i#'(9#2i' 8|O 21'>' 1
_ '<2'6'# (#'3'-'(8<2'6'i|('
122 > |#q3'-6 <'(8\<21'6 -'72'
1' -7'=81- - -(8'(-72
_ 2 -2< & %$a'1(#'7 -2 8& &'
b '\ '' & '(-72'1(6 \ %%a' =1(5'-21'
-72'19'&a c'\F
_ D(E-7 8 ''\b aa <
D== 9 '' \ \bF
M%.
4?ML@'G2-'&4 %%b<' ' $'
45<2 ' Eu 2' 4R2<' &a \b$
4S<2 ' ' 4J2<' &a \b$'
4?ML@'G2-'&4 %%b<' ' $'
45

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4#2832&' ,R'6 a$`0' ,\!* 4#2--10 M( 12-' b &$ 4#28--'$ ,'8' D=9<9 8 1- '-( . \ $aO`\ $a<' &,4 a <' \ 4>L@@XC??A,M ,& a%bOP 4#2832< '2 %&$ %&C$ 4#28286 1'P ,## 4#2 g 4#2 9 -(5 -2`b\' < 4#2 9 -(B( -9 -' -(8 ( 4#2 9 -(3(8 9`b %\' < 4#2 9 -(#7(24 bda<' 4#2 9 -(#7 -'P 122 >7'8g 2 (3'91 \!C5 & c a 85- 6(8I 4#2 9'-(B(" b%) ''' &% \\c\2' &`,c `O' 9'- g - (8!c c\ ,,c\ ,& 21-'2 R(<1' % 4#2-57&2 '21-'2 R(<1' % 4#2-28 'A89 %% 'aa`D$&. 4#2-7 'G R' %% $O 4#2-1'2'G'\& & `DL%. _ %$ 'P J' (G 22 =8<2 1' 4#2 9 -(B(-9 -' -(8 (4#2 9 -(3(8 9`b %\' < 4#2 9 -(#7 1'P ,## 4 (16 4#2 9'(6 &$ \O' & a O' 4#2 9 -(B( -9 -' -(8 ( 4#2 9 -(3(8 9`b %\' < 4#2 9 -(#7 1'P ,## 4 (16 4#2 9'(6 90 '8 1'P ,##F(6 90 ' 4#2 #(#7 -'P 122 >7'82 (g 3'91 % 26 \!C5 & c a 85- 6(8I 4#2 9 (W<'12'\c $ <' E>LAC R,'L'& a O' 4 4#2 92-8'2'P ,## L1- 26<68'2' 4>2 #(3(8 '%%a' ,' 4#2 9'(6&$ \O' & a O' 4#2 9 -(#7 1'P ,## 4 (16 4#2 9'(6 90 '8 1'P ,##F(6 90 ' 4#2 #(#7 -'P 122 >7'82 (g 3'91 _ 3((1202 9 6<12J 4#0'2 (1<2 -2 4 \%"' 4#7'2 (2# 1',' c(' 4#0'2 (1<2 -2 4 \%"' 4#7'2 (52 1'4,' B2'\ ,'abO' 4#7'2 (((9 <'2 ^C' <' 4#7'2 (((# 1' C$ '' 4#7'2 (7(6 1'66 %%a0' 4#7'2 (((1-'6& aa&O' 4#7'2 (2 (12(' 'b %a'& ' 4#7'2 (-725' 66 %%b5' \\ 4#7'2 (-72 ' 8& ab$ ' \ 4#0'2 (-72 ' 8& ab$ ' \ 4#7'2 (-0 6'5 1' #(6 5' # 1 4#0'2 (B(9'&& '$%<' 4#7'2 (B(9'&& '$%<' 4#0'2 (9 #A(12 9 6<2J 4#7'2 (2#(288216'8'J ' 4#0'2 (9 #2 ' 4#7'2 (8 <n2 ' c 4#0'2 (025-21' \aS' ' 4#7'2 (8 <2 ' b aaS' ' 4#0'2 (<2 ' \'$< ' 4#7'2 (72 21'&$ &ca(' 4#0'2 (72 ' 5 ' 4#7'2 (72 ' 5

8 ,KK A?□

4#(- k62 ,%W& , &'DE ,
4>?K4[']D&6 ,<1;'b% 5'
4#(2 " (9(111 9 '"f 12'
5(02,'' ,R76# O 26'
4#AL CELAG ,G2 ,&4 c%c('
\\ ,$,'DM E%, , %6O'
4# 28<6 83Z8 ,G2 ,\\ ,$,'D==
9b.
4# 2836' F' ,8 && &$\0
F7 1-'8' ,(8 ,<& c%c$
_ ,$&& " (8'&&8 -(8' &&
4# 2832' ,"6(' 1'\ ,b$ 0
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4# 283'1&< ,'\ && ,<2# 211(8' =52
\ && ,D$& ,\ && ,
_ ," ?E& C%c<'\ %b\0'
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4# 2'-'D127(6' ,' a%$O'
4# 281 2 8'f ,'E2 3'9 886-2
4# 2 '82' - 02'&'\b$#
4# 2 -(8'Ma 'b %$D '=E&.'
4# 33 4 ' G <(8'4 &<
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x'12--629 28-j' ,'D\ ,' %
a$C-'' ,'9 81-'621 4 &'%'
&%&' ,82--'83 &c &&&&'
6((8'D0 <'f 125 M6 ! ,'
4>A"TT' T'?C"4 "EL.'
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4#-88(D#(520'8'9' 2 ,'
\ c 5
4# --(8' @(-7'8-1' b &$'
D'8'IP &'@F\b cc&D3 .
_ ," ,&'DM
_ -, :'8'\\%bbF
_ ,' ,&'DE .
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_ ,'7,'R' (',' c $
4>&=@G1<'f 2-'&'C%<'<'&'%b&$'
_ 532(3'&'&'C%<'<'&'%b&$'
4n-&86(8-'D#(520'8'9' 2 ,'
4# 2'<'&3 'a&a'D7(12'\%'
4# 2'<'L'362'D7(12'\%'
4 0
4# 2'<'&3 '92\a c&a#'
4# 25'' E(18'%'DI' .
'%b&0'
4# 2572' I(- 8'- 1'&a &a%<'
4>6 2F'L:4'F:"K4&' C%-'.'
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4# 25' 26!' F'6' c%c'.'DF%'.
4>ALL' 6T G2 & C%c'.'%'
_ 3'' 0'9 '#'-'\\ $'DM&.
_ 2<2' 72'-7' G2 % C'.'
J-2'& %aa(
_ 5' '32' $&O' 7' 9(8 5'
9(- (8'a %'0
_ 52'1(8'& C%'<'#'\%'ab\F
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> 9' 2']

4# 83 " 0(,C 57' ^ %c&
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4>?K4[']D&6 ,<1'%'b% 5'
4#(2 " (9(111 9 '"f 12'
5(02,'' ,R76# O 26'
4#AL CELAG ,G2 ,&4 c%c('
\\ ,$,'DM E%, , %6O'
4# 28<6 83Z8 ,G2 ,\\ ,$,'D==
9b.
4# 283'26' F' ,8 && &$\0
F7 1-'8' ,(8 ,<& c%c$
_ ,%$& " (8'&&8 -(8' &&
4# 2832' ,"6(' 1'\ ,b$ 0
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\ && ,D$& ,\ && ,
_ ," ?E& C%c<'\ %b\0'
_ \& c%CO
4# 2'-'D127(6' ,' a%$O'
4# 281 2 8'f ,'E2 3'9 886-2
4# 2 '82' - 02'&'\b$#
4# 33 4 ' G <(8'4 &<
&'0' ,'E257&'8'8'&<
x'12--629 28-j' ,'D\ ,' %
a$C-'' ,'9 81-'621 4 &'%'
&%&' ,82--'83 &c &&&&'
6((8'D0 <'f 125 M6 ! ,'
4>A"TT' T'?C"4 "EL.'
E 9'32 &<%$<' ,'c:O('
2M##(-'(81c &a',%'baO
4#-88(D#(520'8'9' 2 ,'
\ c 5
4# --(8' @(-7'8-1' b &$'
D'8'IP &'@F\b cc&D3 .
_ ," ,&'DM
_ -, :'8'\\%bbF
_ ,' ,&'DE .
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4>&=@G1<'f 2-'&'C%<'<'&'%b&$'
_ 532(3'&'&'C%<'<'&'%b&$'
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4# 2'<'L'362'D7(12'\%'
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4# 25'' E(18'%'DI' .
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4# 25' 26!' F'6' c%c'.'DF%'.
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4# 83 " 0(,C 57' ^ %c&
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4#(2 " (9(111 9 '"f 12'
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4# 2'-'D127(6' ,' a%$O'
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4# 2 '82' - 02'&'\b$#
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4>A"TT' T'?C"4 "EL.'
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4# --(8' @(-7'8-1' b &$'
D'8'IP &'@F\b cc&D3 .
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_ ,' ,&'DE .
_ ,'C(' ,a$ DE%.
_ ,'T1'&a %b'
_ ,'7'F'6'4 'DM%.
_ ,'7,'R' (',' c $
4>&=@G1<'f 2-'&'C%<'<'&'%b&$'
_ 532(3'&'&'C%<'<'&'%b&$'
4n-&86(8-'D#(520'8'9' 2 ,'
4# 2'<'L'362'D7(12'\%'
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4# 25'' E(18'%'DI' .
'%b&0'
4# 2572' I(- 8'- 1'&a &a%<'
4>6 2F'L:4'F:"K4&' C%-'.'
_ (78' M2< (7 & z%c'
_ \b C&$
4# 25' 26!' F'6' c%c'.'DF%'.
4>ALL' 6T G2 & C%c'.'%'
_ 3'' 0'9 '#'-'\\ $'DM&.
_ 2<2' 72'-7' G2 % C'.'
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_ 5' '32' $&O' 7' 9(8 5'
9(- (8'a %'0
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x' 4# 83' DE(-- 5266 '#' ,##
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4# 83 " 0(,C 57' ^ %c&
D!C'\%'&ab<'<1'%'b% 5'
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4#(2 " (9(111 9 '"f 12'
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4#AL CELAG ,G2 ,&4 c%c('
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4# 283'26' F' ,8 && &$\0
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4# 2832' ,"6(' 1'\ ,b$ 0
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4# 2'-'D127(6' ,' a%$O'
4# 281 2 8'f ,'E2 3'9 886-2
4# 2 '82' - 02'&'\b$#
4# 33 4 ' G <(8'4 &<
&'0' ,'E257&'8'8'&<
x'12--629 28-j' ,'D\ ,' %
a$C-'' ,'9 81-'621 4 &'%'
&%&' ,82--'83 &c &&&&'
6((8'D0 <'f 125 M6 ! ,'
4>A"TT' T'?C"4 "EL.'
E 9'32 &<%$<' ,'c:O('
2M##(-'(81c &a',%'baO
4#-88(D#(520'8'9' 2 ,'
\ c 5
4# --(8' @(-7'8-1' b &$'
D'8'IP &'@F\b cc&D3 .
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_ ,' ,&'DE .
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4>&=@G1<'f 2-'&'C%<'<'&'%b&$'
_ 532(3'&'&'C%<'<'&'%b&$'
4n-&86(8-'D#(520'8'9' 2 ,'
4# 2'<'L'362'D7(12'\%'
4 0
4# 2'<'&3 '92\a c&a#'
4# 25'' E(18'%'DI' .
'%b&0'
4# 2572' I(- 8'- 1'&a &a%<'
4>6 2F'L:4'F:"K4&' C%-'.'
_ (78' M2< (7 & z%c'
_ \b C&$
4# 25' 26!' F'6' c%c'.'DF%'.
4>ALL' 6T G2 & C%c'.'%'
_ 3'' 0'9 '#'-'\\ $'DM&.
_ 2<2' 72'-7' G2 % C'.'
J-2'& %aa(
_ 5' '32' $&O' 7' 9(8 5'
9(- (8'a %'0
_ 52'1(8'& C%'<'#'\%'ab\F
x' 4# 83' DE(-- 5266 '#' ,##
> 9' 2']

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4TLK=F?' "G24T=@O
57 I,& b$ 7
4-2 2 \$ab' ,2 9'88 &a bbb5'
4-2 2 #2E' F' ,H' \'<'
4-2 2 2 2 2 8'66 'a <'
4-2 8202 3 ,' \ &cbO'
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4TL L@4' ," ;IALM' DE263 '8
4TL L@47?@ "45(- 'a b\$'
4-2 281 K62 'C<' \C 'a 'DG%.'
4-2 8 4 9 8'4 ,## 4-2 '8 2 1'
4-2 21-(8'F8' a$$ IL %.'
4-2 8 4 9 8'4 ,## 4-2 '8 2 1'
4TL 83-(8'E2<1 %a&&'
4-2 28-(8'E2 1 b &$ D===' 4-2 2
4-2 81 ;78-'5'#2 Mr8' & ' DL%.'
4-2 2J ,<' 2 02 -&%c' < 4-2J'8 $c&'
4-2 2J ,<'\\' %$ 'DF&.' 4-2J'8 <'
4-2 2J ,<' <D2 <'6.'C ba< 4-2J'8 <'
4-2 2J ,<' <' 37' ,## (' <' 37' 4-2J'8 <'
5 ,<' 37' ,## (' <' 37' 4-2J'8 <'
5 c F7'662B32 F # &%.' 4-2J'8 <1(8'\\\' %$ 'DM .' 4-2J'8 <1(8'\\\' %$ 'DM .'
\a5 L6 ,0(28'@ "\%.';%' 4TLR "AT' D4- -' 4-2 .-'P
C 'F # \% c&b$ 4-2J'8 <1(8'L<9 8< " ' &
<'6'8' & b\\' ' \ \\b5' 9 6 ' &' b$c<' \a a%' <'
0'<32' a a&&0' : 83#I' L 6 *
\ \C0' ,## 60'8 '
C 'I' ,## 288(W' < 21' 8<2' ,"-7(' ,E7(7'8 0
2- # (' - 2 &$ \5cF &$ b&' '\b 5 c\%F' 4-9 6 8I'% \c%5
4-2 2812(8 'I' ,## ,'66' 4-2 2812(8 'I' ,## ,'66'

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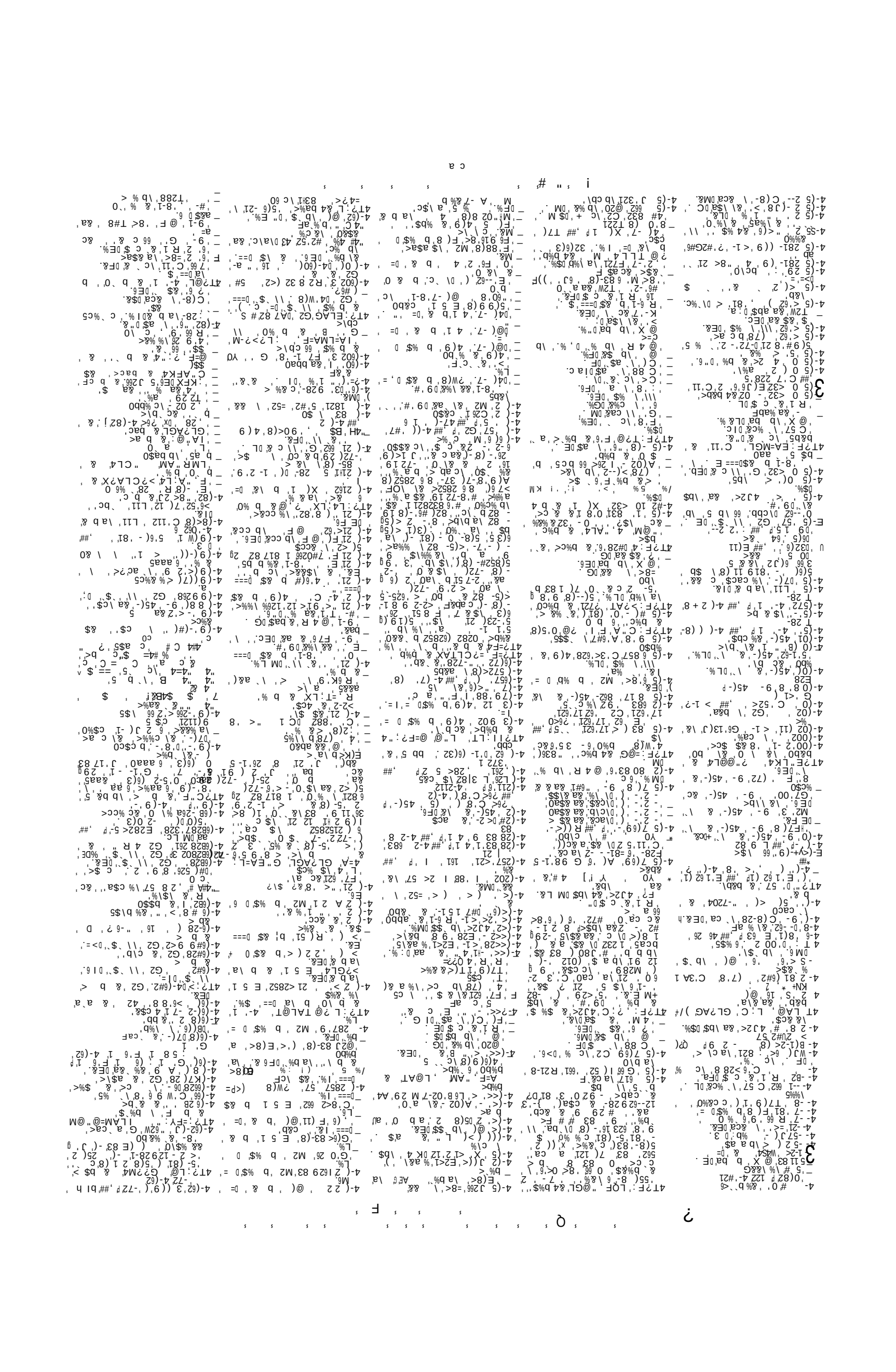

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4-'-(8'@(9'8'M' '\c'4-'R02'>(8-'6'\'c%@'4-'-(8'@(9'8'M' '\c'4-'R02'>(8-'6'\'c%@'
4-'(8'<61-'F(8''##'4-'226 2',(K'\%''DE%.'4-'(8'<61-'F(8''##'4-'226 2',(K'\%''DE%.'
4-'-1 D56(<;'a''4-'226 2',(K'\%''DE%.'4-'-1 D56(<;'a''4-'226 2',(K'\%''DE%.'
BBdIV BBdIV
4-'-BK'A 9'&%'&dD\'4-'-BK'A 9'&%'&dD\'
4-'-(8'<61-'F(8''##'4-'226 2',(K'\%''DE%.'4-'-(8'<61-'F(8''##'4-'226 2',(K'\%''DE%.'
4-'-(8'@(9'8'M' '\c'4-'R02'>(8-'6'\'c%@'4-'-(8'@(9'8'M' '\c'4-'R02'>(8-'6'\'c%@'
4-'-BK'A 9'&%'&dD\'4-'-BK'A 9'&%'&dD\'
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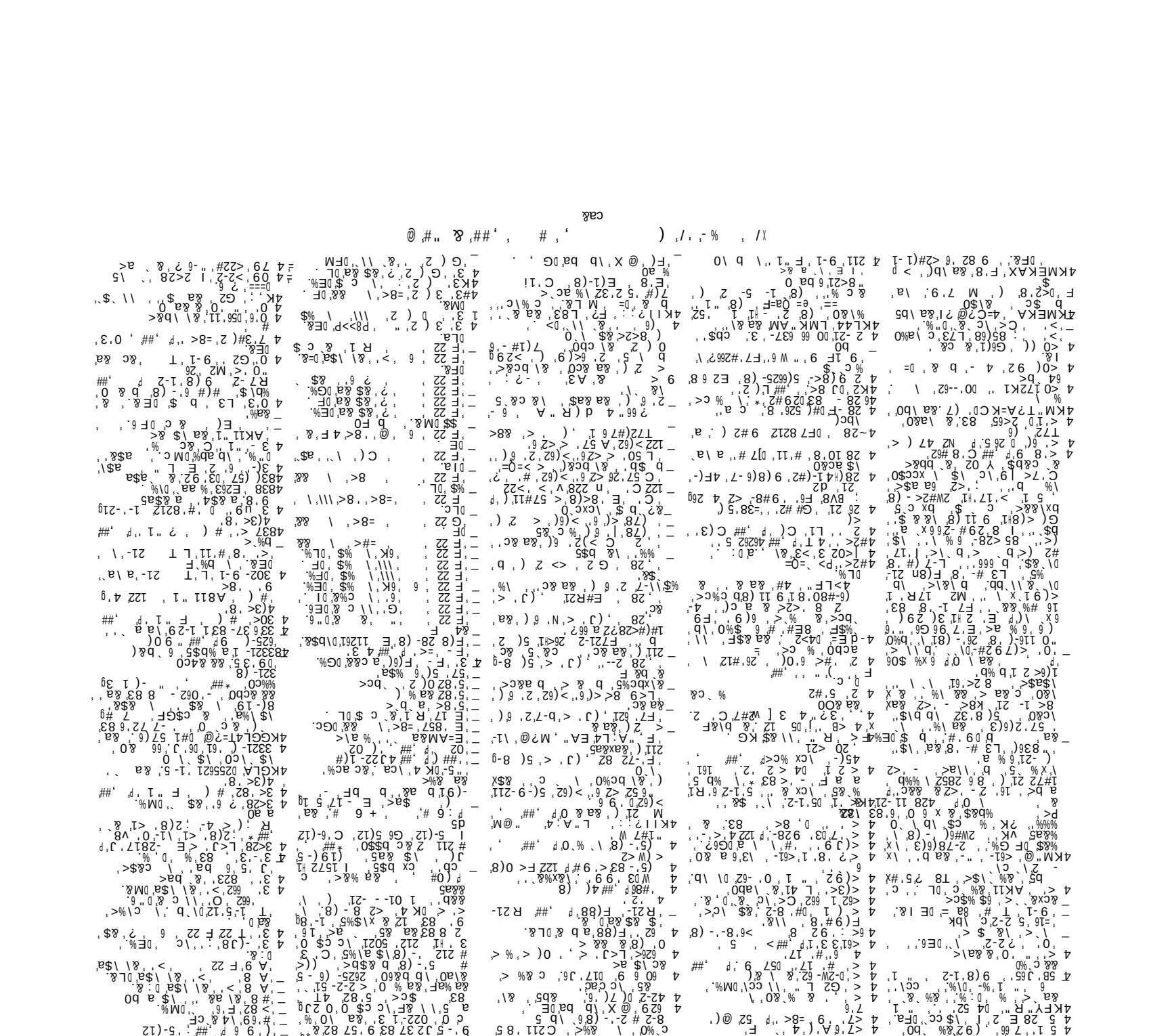

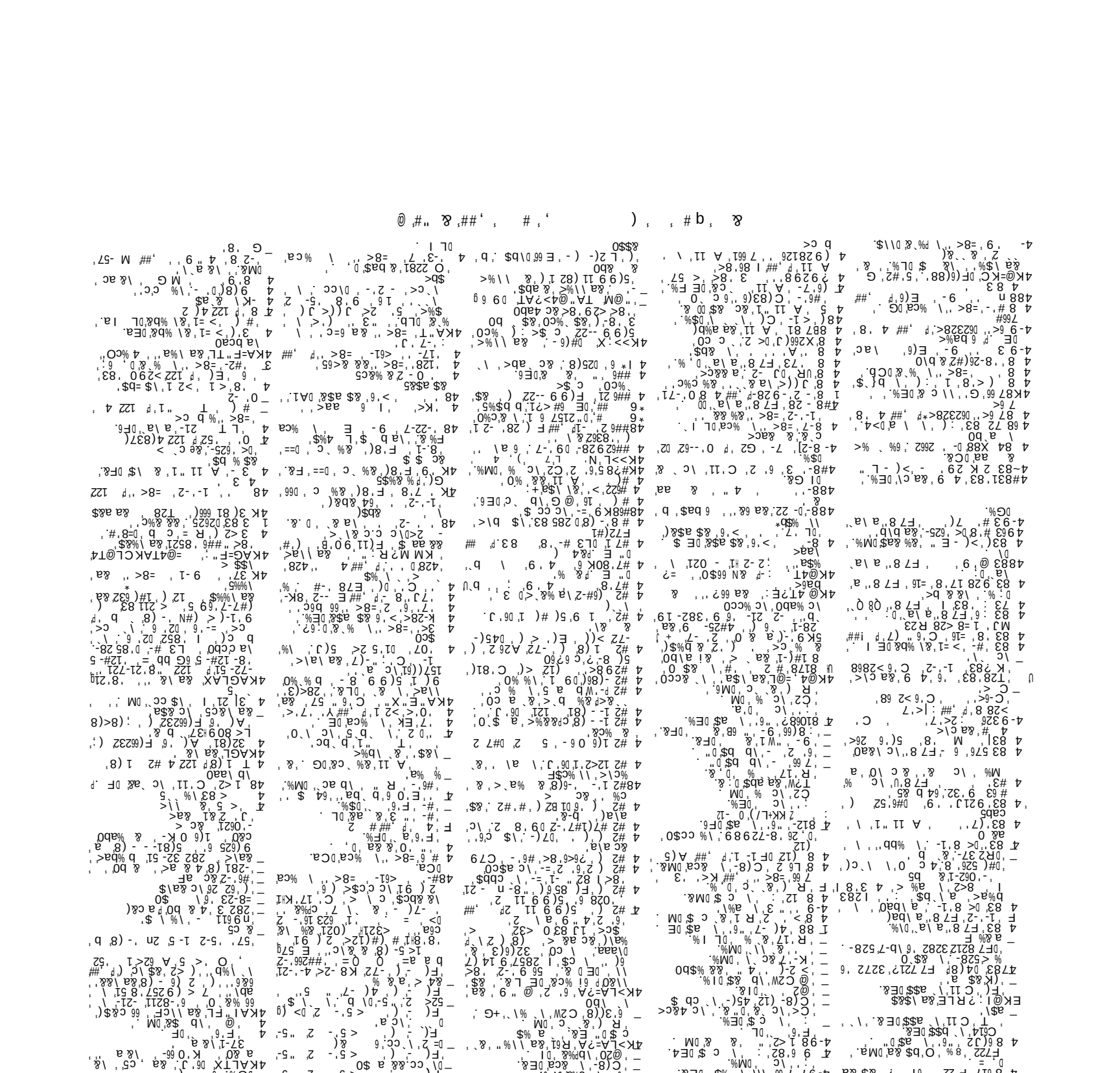

4 B2' T 4J6-8a &l&'DF&. 4 2 2 D(@(J . ;' \b $,'' &8' 4J'66(J 161 >'5 ?'F ,## "11#'8 4J'8'3((12\& & &<&& &\b<' 4R"A=@G'&a \'a0'/# ('82
4 8Z6'L (12lJ I ' \$ cc'' 4 2-'90' '' D125-' \ \&cO' 4R"-'?R' &a \c' \ C'-29' 2-'7 0 < 19'' & \ &' \b \b 'b0'F
DG [' \bF 4 ':(#6 ' DC(' 6'8' # 852. ba'' \' %'D9 '#' 4R"-'?R' &a \c' \ C'-29' 2-'7 0 < 19'' & \ &' \b \b 'b0'F
4 ' \$6c' &%'5 4 ' -1' @(-'\b ' $,D$& . < 57 ' G2 ' &a =ca'' &8' 4J'66(J 161 >'5 ?'F ,## "11#'8 4J'8'3((12\& & &<&& &\b<'
4 2'0(3 ' A 11' &%' \ &%'cb$ %< 4 ' -1' @(-'\b ' $,D$& . < 57 ' G2 ' &a =ca'' &8' 4J'66(J 161 >'5 ?'F ,## "11#'8 4J'8'3((12\& & &<&& &\b<'
4 2'0(3 ' A 11' &%' \ &%'cb$ %< 4 ' -1' @(-'\b ' $,D$& . < 57 ' G2 ' &a =ca'' &8' 4J'66(J 161 >'5 ?'F ,## "11#'8 4J'8'3((12\& & &<&& &\b<'
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4 2'0(3 ' A 11' &%' \ &%'cb$

4 22- 0 -2 %& c%$' ,%& c%$< c&b<
_ ,E 2 ,F-22 ,I @M' ,\a'
_ c $,DF%.
_ ,5,0'0 ,17 %$,C<
_ -5,#2 ,## F6,83 1
_ -2,21' ,' < -,-,
_ DE% ,2 \ && ,
4 22-1# 831 ,R ' & ,a$
_ ,5721-8J ' ,### - R '
_ ,5(9)C b
_ ,288266 12 2A(9 8' 27826' 44 -44 2 6F2 6 ,&\ b&bO' 4R22- ,T 9 8 ,8a aaa!DI & &M%.
4- 22 :,11 G(,C(7- ,&ca
4 22-3 ,11' C(8- \ &caJ
4R22-1 ,11 # -1 ,C(8-\ '
&ca'DM .
DF M6.
4 22-7 ,(92 ,23 ,a$ &,D$%.
4 22-A(92 ,2W ,8a ab$ T &a.
T F-22 ,17 ,62I ,C a% '
4 22-6'8< ,6' ,C%&D!%.
b &'D=M8.
9 ,6F ,## ;' ,26
4 22-'6' ,28' ,## ;' ,26
_ ,6 ,(,8 ,6c ,c&c'
_ ,6P %& 122 ,#2 (6
_ ,#2 %& 3"o 0'4 = 4 4 "I)-;
T U 3"o 0'4 = 4 4 "I)-'
_ b\ d '
U 4 ,2 -j ,D<21- (2 ,& \b\a$'
4 J -,F('=6 88 \ ,$ DE .
4 26 ,(11 6' % bc6' 9 15 6' -666 %' 1 bao' %
ba\$
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Syntrophus, Titus Flavius 14-637d.
Synura 10-467a ; 1-591b.
Syon, convent, Isleworth 4-558d ; 26-171d.
—, house, Mdx. 4-497a ; 2-420c ; 9-76b.
— cope 7-96 (Pl. I.) ; orphrey 9-309 (Pl. II.).
Syosset, N.Y. 20-428a.
Syphax (of Numidia) 17-869d ; 19-868c ; 16-62d.
Sypheotis aurita : *see* Floriken.
Syphilis 27-984a ; 9-47c ; 18-49b ; bacteriology 3-172a, 20-787d, 25-191b ; brain pathology 19-431 (Pl. II. fig. 9) ; brain tumour 25-201c ; eye 10-96b ; liver 16-803a ; locomotor ataxia 16-856a ; myelitis 19-111c ; nose 20-79d ; osteitis 4-201c ; paralysis (general) of the insane 14-599a ; paraplegia 20-763c ; sulphur waters 18-520d ; synovitis 15-487d ; throat 16-228d, 20-14c, 21-359b ; tongue 27-8c ; vaccination 27-833b.
Syphneus aspalax 25-14b.
Syphon : *see* Siphon.
Syr (dict.) 26-303d.
Syr, riv., Asia : *see* Syrdarya.
Syra, Aeg. : *see* Hermopolis.
Syra (Old), Aeg. 7-681c ; 26-295c.
—, Russ. : *see* Sieradz.
SYRA (Syros), isl., Aeg.S. **26-295c ; 12-440** (F3) ; **12-424** (F3) ; Aegean civilization **1-246a** ; early coinage **19-885d.**
Syracosius, Law of 8-492a.
Syracusae, Sic. : *see* Syracuse.
Syracusano, Il (chess player) : *see* Boi, Paolo.
Syracuse, Leopold de Bourbon, count of 4-327.
Syracuse, Ind. 14-422 (F2).
—, Kan. 15-654 (A3).
—, Mo. 18-608 (D3).
—, Neb. 19-324 (H4).
SYRACUSE, N.Y. **26-302a ; 19-596** (D2) ; newspapers **19-570b** ; university **26-302c** ; Working man's Convention (1830) **27-150c.**
—, O. 20-26 (G6).
SYRACUSE, Sic. **26-296a ; 25-27b ; 26-296** (map) ; **15-4** (E6) ; **15-26** (E6) ; ancient aqueducts **2-241b** ; ballot system **3-279c** ; bishopric **23-453b, 15-18b** ; catacombs **5-497b** ; coinage (Greek period) **19-878d** ; Greek vases **5-711c** ; Moslem conquest (705–715) **5-33c** ; Norman capture (1085) **25-33a** ; revolution (1848) **15-53a** ; ships (ancient) **24-864c** ; siege (415–413 B.C.) **26-297c, 8-326c**, *see also* Sicilian expedition ; siege (214–212 B.C.) **26-300a, 10-681d** ; Thesmophoria **26-839c** ; treasury at Olympia **20-96b.**
—, Utah 27-814 (B1).
—, prov., Sic. 25-22a.
" Syracusia " (ship) 13-264a.
Syrastrene, dist., India : *see* Kathiawar.
Syraz, Russ. : *see* Sieradz.
SYR-DARYA (Syr-Dariinsk), prov., Turkest. **26-304b ; 27-420** (C-D3).
SYR-DARYA (Jaxartes, Shash, Sihun), riv., C.Asia **26-303c ; 27-420** (D3) ; Alexander's idea of **7-833b** ; annual freezing **27-420b** ; identification as Tanais **13-514b.**
Syren : *see* Siren.
Syrenets, Russ. 23-872 (C8).
Syresham, Northants. 9-420 (III. E2).
SYRIA, Asia **26-305a ; 26-305** (map) ; architecture (early Christian) **2-385b** ; Assassins in **2-775a** ; Christian settlers (Arabian, 1st cent.) **2-266c** ; coins (anc.) **19-889d** ; commerce and industries **26-308a, 25-104b** ; flora and fauna **26-307a, 14-270a** ; foreign consuls **7-20c** ; geology **26-306b, 2-742b** ; Hajj **5-302c** ; Hittite antiquities **13-536d, 13-538d** ; numeral system **19-866c** ; Phoenician inscriptions **14-619a** ; St Jean d'Acre Medal **18-10a** ; wedding customs of peasants **5-216b** ; weights and measures (anc.) **28-484d, 28-485a.** *See also* Palestine.
SYRIA : *History* **26-308a** ; Assyrian invasions **26-968c, 26-968d** ; Babylonian trade **3-104a** ; census (of the Nativity) **3-888b** ; crusades **7-528a** ; David's conquest **7-784b** ; Egypt (anc.) subdued **9-85d** ; Egyptian domination **20-606a, 9-83b** foll., **5-141b** ; famine (687–688) **5-31a** ; French occupation (1860) **27-461a** ; Hellenism **13-238d, 13-243c** ; Hittites **13-534a, 13-538d, 13-539b** ; Iranian invasion **21-202d** ; Mameluke rule **9-100a** ; Mehemet Ali's campaigns **27-458a, 14-224b, 18-79a** ; Merwan II. (caliph) **5-39a** ; Mongol invasions **9-100d, 9-102a** ; Moslem invasion (635) **5-24a** ; Necho's invasion **9-87c** ; Parthian conquest (40 B.C.) **20-442a** ; Roman legions (c. A.D. 120) **23-474a** ; Sargon of Akkad **3-103b** ; Seleucus I. acquires (301 B.C.) **21-213c, 24-604a** ; Seljuk rule **24-608d, 24-609d** ; theological controversies (5th to 7th cents.) **23-518b.**
—, Roman prov. 23-648 (F3) ; **24-605d ; 26-309b.**
— I., Roman prov. : *see* Coelesyria.
— II., Roman prov. : *see* Syria Salutaris.
—, vil., Asia M. 20-605a.
Syriac Church : *see* Syrian Church.
— LANGUAGE 26-309d ; 24-625c ; alphabets derived from **27-473b** ; dictionaries **8-196d** ; inscriptions **14-620b.**
— LITERATURE 26-310d ; 15-114a.
— versions of the Bible 3-881d ; 22-768d.
Syria Coele, Roman prov. : *see* Coelesyria.
Syriac type (printing) 27-540b.
Syria Euphratensis, prov., Syria 26-309b.
Syriam, Bur. 4-846d ; siege (1755) 4-844a.
Syrian, desert, Arab. 2-264 (C1) ; **2-257d.**
Syrian bear 3-574c.
— Church 26-313a ; 6-338a ; mitre 18-627a ; prayers for the dead 22-262d ; rite 16-796c, 18-581a ; unordained ministry (early) 2-197a.
— Church in India : *see* St Thomas Christians.
— dynasty (Later Roman emperors) : *see* Isaurian (dynasty).
— garnet 1-712c.
— Gates, pass, Asia M. : *see* Beilan pass.
— goat 12-162c.
Syrian hyrax 14-209a.
Syriani (Kaesariani), monastery, Gr. 14-181a ; 2-837a.
Syrian mallow : *see* Gumbo.
— revision of Bible text 3-884c.
— rite : *see under* Syrian Church.
SYRIANUS (Neoplatonist philosopher) **26-317a.**
Syrian war, first (275 B.C.) 24-604b.
— war, second (c. 260 B.C.) 24-604b.
Syria Palestina, prov., Syr. (4th cent. B.C.) 20-617c.
— Palestina, prov., Syr. (2nd cent.) 26-309b.
— Phoenice, prov., Syr. 26-309b.
— Salutaris, prov., Syr. 26-309b.
Syrie Centrale, La **(la Vogüé) 2-389d.**
Syries (gem-engraver) 11-565d.
Syrinca, Iran 13-241b.
Syringa 16-682b. *See also* Mock-orange.
— vulgaris : *see* Lilac.
SYRINGE 26-317a.
Syringin 12-142d.
Syringodendron 20-524c.
Syringomyelia 25-191a.
Syringopora 2-99b.
Syringoporidae 2-99a.
Syringothyris 3-67a.
Syrinx (myth.) 20-662d.
SYRINX (mus.) **26-317b ; 20-265d ; aulos 2-919d ;** mouthpiece **18-946b.**
— monocalamos 2-920a.
Syrjenians, tribe : *see* Syryenians.
Syrlin, Jörg (the elder) 24-497a ; 27-567b.
—, Jörg (the younger) 11-554a ; 27-567b.
Syrma (costume) 7-236a.
Syrmia, co., Hung. 3-4 (F4) ; **7-473a ; 7-474d** ; dialect **24-695d.**
Syrmium, Alessandro Erba, duke of 20-3a.
Syrmium, Hung. : *see* Mitrovica.
Syrmus (king of the Triballi) 27-262a.
Syrnium aluco : *see* Tawny owl.
Syro-Cappadocians : *see* Hittites.
Syr Odde, cape, Den. 8-24 (D1).
Syro-Hexaplar version (of Bible) 3-857c.
Syrokomla (pseud.) : *see* Kondratowicz, Ludwik Wladyslaw.
Syrophoenicia, dist., Syr. 26-309b.
***Syro-Roman law-book* 23-572a.**
Syros, isl., Aeg.S. : *see* Syra.
Syrphidae : *see* Hover-fly.
Syrrhaptes 3-977c ; 24-139c.
— paradoxus : *see* Pallas's sand-grouse.
Syrt (dict.) 27-420a.
Syrtis Major, gulf, Trip. : *see* Sidra.
— Minor, gulf, Tun. : *see* Gabes.
Syrto (Trata) 12-431d.
SYRUP 26-317c.
— glucose 12-142a.
Syrupus aromaticus 26-317c.
SYRYENIANS (Sirianians, Zyrians, Komi) **26-317c ; 10-389b ; 23-874a** ; language **10-391b, 27-785c.**
Sysenius (of Abyssinia) 1-90b ; 12-231d.
Sysertsk, dist., Russ. 7-979d.
Sysola, riv., Russ. 23-872 (H3).
Syss, mt., Aus.Hung. 6-85d.
Syssitia 17-154b ; 7-426d.
Systema Naturae **(Linnaeus) 20-301a ; 7-570a ; 16-733a.**
Systematization (insanity) 20-766d.
Système de la nature **(Holbach) 11-139a ; 13-577b.**
Système du Nord (history) : *see* Northern System.
Systemodon 21-169d.
Systole 27-930c.
—, ventricular 27-931d.
Syston, Leics. 9-416 (II. E4).
— Park, seat, Lincs. 16-716d.
SYSTYLE (arch.) **26-317d ; 14-683d.**
Sytke, mt., Bulg. 4-773 (B3) ; **4-773b.**
Sytole : *see* Citole.
Syttendemai-poesi (Norwegian lit.) 19-816b.
Syuk, lake, Russ. 23-872 (D3).
Syun, riv., Russ. 23-872 (H4) ; **27-557a.**
Syv, Peder Pedersen 8-39d ; 8-40c.
Syverma, mts., Russ.As. 25-10 (E2).
Syv Sostre, mts., Nor. 19-800b.
SYZRAN, Russ. **26-317d ; 23-872** (G5) ; fairs **25-120c.**
SYZYGY (astron.) **26-317d.**
— (biol.) 12-558b.
Szabadelmü 13-919b.
SZABADKA (Maria-Theresiopel), Hung. **26-318a ; 3-4** (F3).
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—, Szentjobi 13-926c.
Szabolcs, co., Hung. 3-4 (G2) ; synod (1092) **13-903b.**
Szabolcska, Michael 13-929d.
SZABO VON SZENTMIKLOS, Jozsef 26-318a.
Szajnocha, Karl 21-928b.
Szakäl, Lewis 13-927c.
SZALAY, LADISLAS 26-318a ; 13-928d.
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Szalonta, Hung. : *see* Nagy-Szalonta.
Szamorod (wine) 28-728b.
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—, riv., Hung. 3-4 (H3) ; **27-211a.**
— (Hideg), riv., Hung. 3-4 (H3).
— (Meleg), riv., Hung. 3-4 (H3).
— (Nagy), riv., Hung. 3-4 (I3) ; **27-211a.**
Szamos-Ujvár, Hung. 3-4 (I3) ; **27-211c.**
Szántó, Koloman 13-930b.
Szapáry, Gyula 13-920a.
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Szaroszpatak, Bible of : *see* Sophia, Queen, Bible of.
Szarvas, Hung. 3-4 (G3).
Szarzynski, S. 21-924b.
Szász, Charles 13-927d.
Szász Régen (Sächsisch Regen), Hung. 3-16 (I3).
— Sebes (Mühlbach), Hung. 3-4 (H4).
Szászváros (Broos), Hung. 3-4 (H4) ; battle (1479) **17-901c.**
Szathmary, Charles 13-928b.
—, József : *see* Szigligeti, Ede.
Szatmár, co., Hung. 3-4 (H3).
— Németi, Hung. 3-4 (H3) ; peace (1711) **13-914c.**
Szava, riv., trib. of Danube : *see* Save.
Szávay, Julius 13-929d.
Szczakowa, Aus.Hung. 3-4 (F1).
Szczawnica, Aus.Hung. 11-401d.
Szczekociny, Russ. : battle (1794) **15-915b ; 21-920b.**
Szczuczyn, Russ. 21-929 (D2) ; **16-938a.**
Sze (Chinese chron.) 6-317d.
Szeben, co., Hung. 3-4 (H4).
—, Nagy, Hung. : *see* Nagy-Szeben.
Szechenyi, Bela, count 12-165d ; 15-938c.
—, Franz, count 16-570b.
—, ISTVAN, count 26-318b ; 13-915d ; 4-735b.
Sze-chow Fu, China 6-168 (H4).
SZE-CH'UEN, prov., China **26-318d ; 6-168** (F-H3) ; commercial privileges of foreigners **6-202d** ; fauna **6-170c** ; geology **6-170a** ; imperial government subsidized **6-187d** ; minerals **6-178b** ; Shuh Han dynasty **6-195b.**
SZEGED (Szegedin), Hung. **26-319d ; 3-4** (F3) ; battle (1552) **27-448a** ; climate **13-896a** ; flood **23-377c** ; Hungarian government at (1849) **13-918b** ; treaty (1444) **13-907a, 28-766c.**
Szegszard, Hung. 3-4 (F3).
Székács, Joseph 13-927c.
Szekels, race : *see* Szeklers.
Szekely, Ferencz de 13-923b.
Székely Udvarhely, Hung. 3-4 (I3).
SZEKESFEHERVAR (Stuhlweissenburg, Alba Regia), Hung. **26-320a ; 3-4** (F3) ; Mercœur's capture (1599) **18-154b** ; Turks recover (1602) **27-450c.**
SZEKLERS (people) **26-320b ; 10-393d.**
Szelepcsényi, György 13-913b.
Szelestey, Ladislaus 13-927c.
Szell, Kálmán (Koloman) 3-22d ; 13-920a.
Széll-Körber Compact (1902) : *see under* Ausgleich.
Sze-ma I. 6-195b.
— Chao 6-195b.
— Ch'ien 6-908a ; 16-192a.
Sze-mao, China 6-168 (G5) ; **6-178d.**
Sze-ma Yen (general) : *see* Wu-ti (emperor).
Szemere, Paul 13-926d.
Szen (chess player) 6-103c.
Sze-nan Fu, China 6-168 (H4).
Sze-ngan Fu, China 6-168 (H5).
Szentábrahámi, Michael 27-594d.
Szent Agota (Agnetheln), Hung. 3-4 (I4).
— Domokos, pass, Hung. 27-212b.
Szent-Endre, isl., Hung. : *see* Saint Andrew's.
Szentes, Hung. 3-4 (G3).
Szentessy, Julius 13-929d.
Szent Gotthard, Hung. 3-4 (E3) ; **26-320d** ; battle (1664) **13-912d, 27-451b, 18-764c.**
Szent-György, Sepsi, Hung. : *see* Sepsi-Szent-György.
Szent István, Hung. 3-4 (F3).
— Kereszt (Heiligenreuz), Hung. 3-4 (F2).
— Martón, Kún, Hung. : *see* Kún-Szent-Martón.
Szent-Miklós, Hung. 3-4 (I3).
—, Hung. 3-4 (F2).
Szentmiklóssy, Alois 13-927a.
Szent-Tamás, Hung. 3-4 (F4).
Szenvey, Joseph 13-928a.
Szepes (Zips), co., Hung. 3-4 (G2) ; minerals **2-971d.**
Szepsi, Hung. 3-4 (G2).
Szerb Csanád, Hung. 3-4 (G3).
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Szernye, marsh, Hung. 13-895c.
Szigeti, Joseph 13-928a.
Szigetvár, Hung. 3-4 (E3) ; siege (1566) **28-1045d.**
SZIGLIGETI, EDE 26-320b ; 13-928a.
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—, Dezso 13-919d.
—, Mihály 17-900c ; 13-956c.
Szilagy Somlyo, Hung. 3-4 (H3).
Szilasy, John 13-928d.
Szinva, val., Hung. 18-579b.
Sziszek, Hung. : *see* Sissek.
Szkleno, baths, Hung. 24-614c.
Szklo, Aus. 11-401d.
Szlachta 21-904b.
Szlankamen, Croat.Slav. : *see* Slankamen.
Szlatina, Hung. 3-4 (H3).
Szlávy, Joseph de 4-285b.
Szliács, Hung. 13-898d.
Szobráncz, Hung. 3-4 (H2).
Szolnok, Hung. 3-4 (G3) ; battle (1849) **13-917d** ; capture of (1552) **27-448a.**
Szolnok-Doboka, co., Hung. 3-16 (H3).
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Szomaházy, Stephen 13-930b.
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Szomölnok (Schmölnitz), Hung. 3-4 (G2).
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Szontagh, O. 7-108c.
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Taa: *see* Pagoda.
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—, Ludwig Patrick **26**-321b.
—, Nicholas, viscount **26**-322a.
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—, lake, P.Is. **21**-392 (E3); **21**-393a.
—, mt., P.Is. **17**-579b; **21**-393a.
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Taanach, Pal.: *see* Tell Ta'nuk.
Taaref, mt., Egy. **9**-40 (B2).
Taaroa (deity): *see* Tangaloa.
Taars, Den. **8**-24 (C1).
Taas, riv., Norf.: *see* Tas.
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Taastrup treaty (1658) **11**-51c.
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—, state, Mal.Arch. **3**-256b.
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Tabarinades **8**-511c.
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Tabasaran (dialect) **7**-729d.
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Tabasco, riv., Mex.: *see* Grijalva.
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Tabas Sunni Khaneh, dist., Pers. **15**-635a.
Taba-Tek-Singh, India **14**-376 (E4).
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Tabatinga, Braz. **4**-440 (B3); **1**-784 (map).
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Tabbas, Pers. **21**-188 (C2).
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— silk **3**-198a.
Tabe, mt., Fr. **2**-491a.
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Tabennesiot **20**-433a.
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—, bay, N.G. **19**-487 (F3).
—, cape, Nfd. **19**-479 (B1).
—, cape, N.Z. **19**-624 (G3).
—, cape, Tas. **26**-439d.
—, hill, N.Z. **19**-624 (A7).
—, isl., And.Is. **4**-840 (B6).
—, isl., Bay of Bengal **4**-840 (C7).
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—, mt., Ariz. **2**-544 (C3).
—, mt., Ire. **14**-744 (E3); **28**-618d.
—, mt., Nev. **5**-8 (E1).
—, mt., Nfd. **19**-479 (A2).
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—, plat., Scot. **25**-206a.
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— (gem cutting) **16**-196c.
— **(MATHEMATICAL) 26**-325d; **16**-873d.
— baize **3**-225d.
Tablecloth **28**-454a.
Table Grove, Ill. **14**-304 (B3).
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— mountain (physical geog.) **18**-177d.
— Mountain Sandstone **5**-229d; **19**-253b; **1**-324d (table).
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Table stakes (poker) **21**-899d.
Tablet **19**-563c; **27**-956a.
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—, Ill. **14**-304 (C3).
—, Ind. **14**-422 (G4).
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—, Pal. **12**-2c.
—, S.Dak. **25**-506 (H5).
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— Iliaca **25**-903d; **7**-682c.
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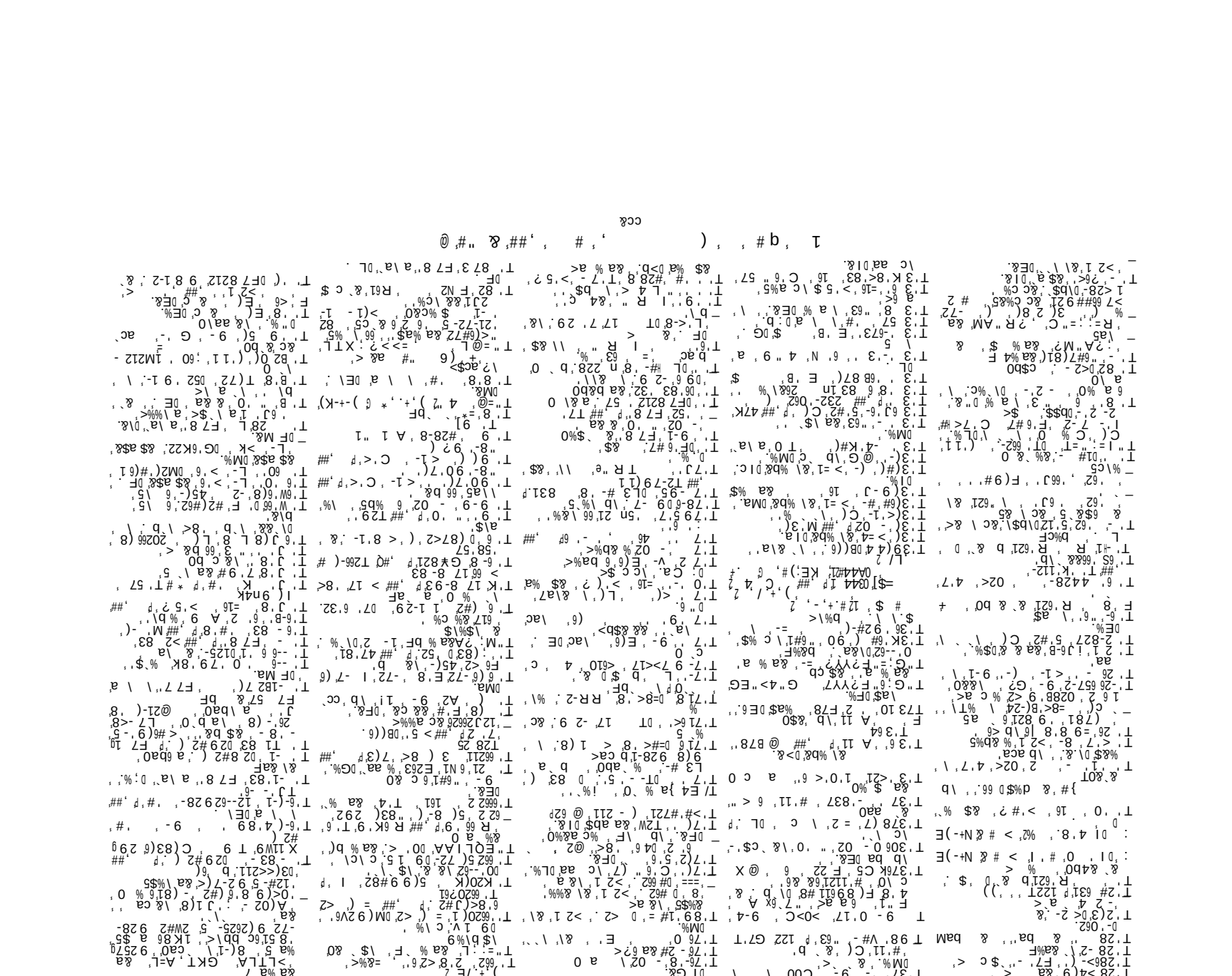

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\a\' b&5' ' b 0' ,'# b&5' ' b 0' ,'#
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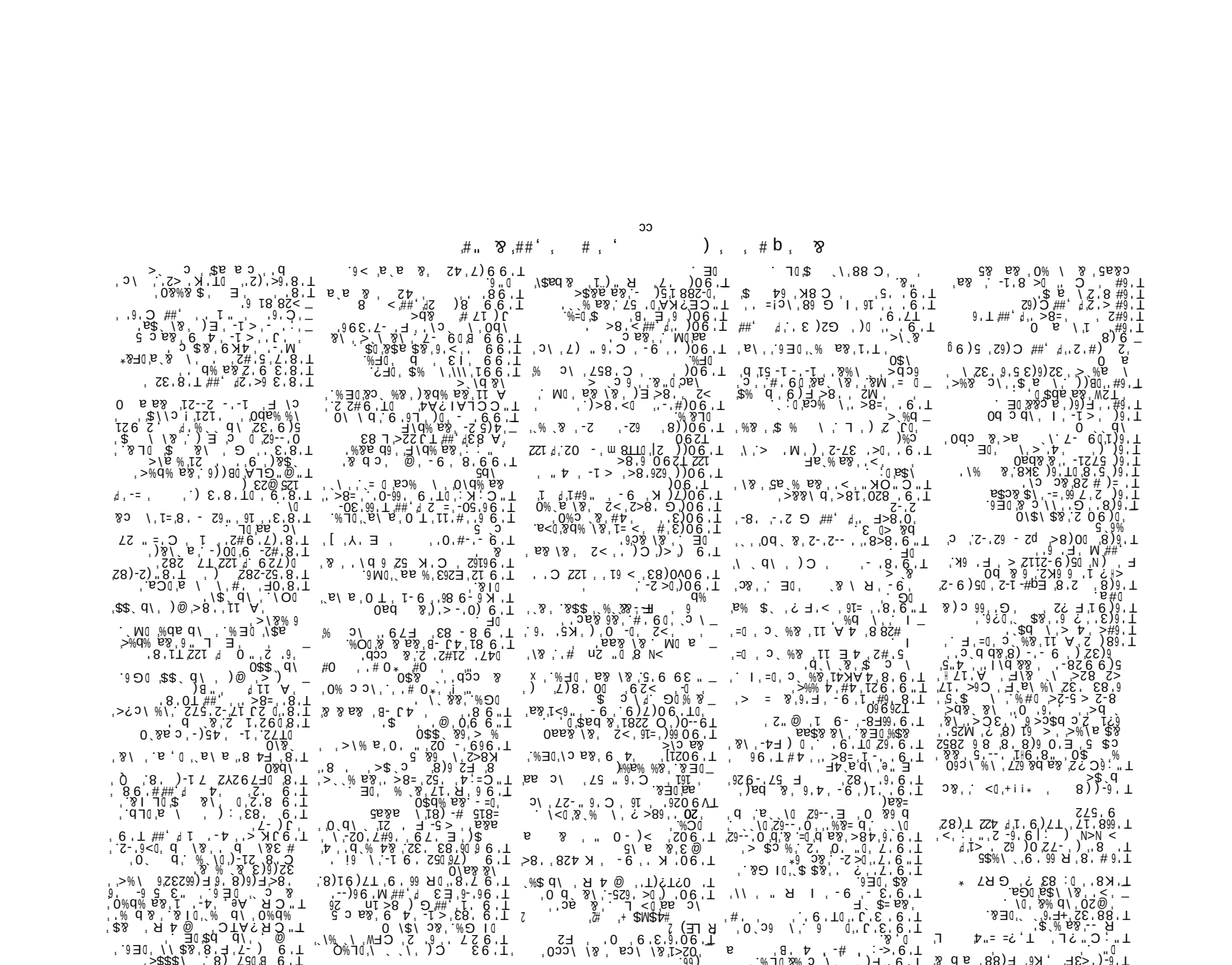

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T77' 9 <'2 \ \ \'' 7'9 ,1'D# 6(-'&$ aa%'' ,##T 93'<' 17'#93'1 &&%< ,&&A' ,&&'b aF' 7'9 1<'' ,'81C(\' \' \'
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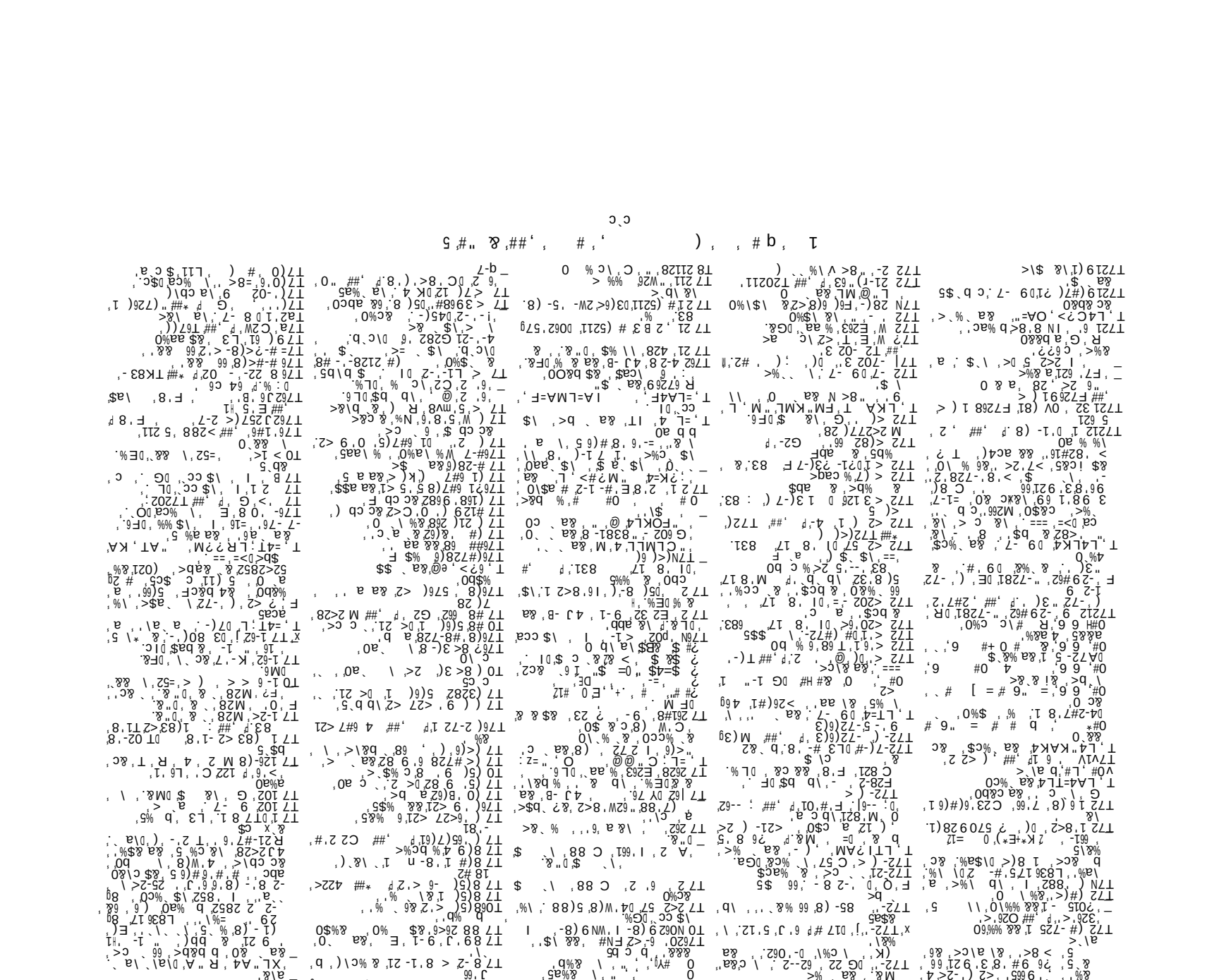
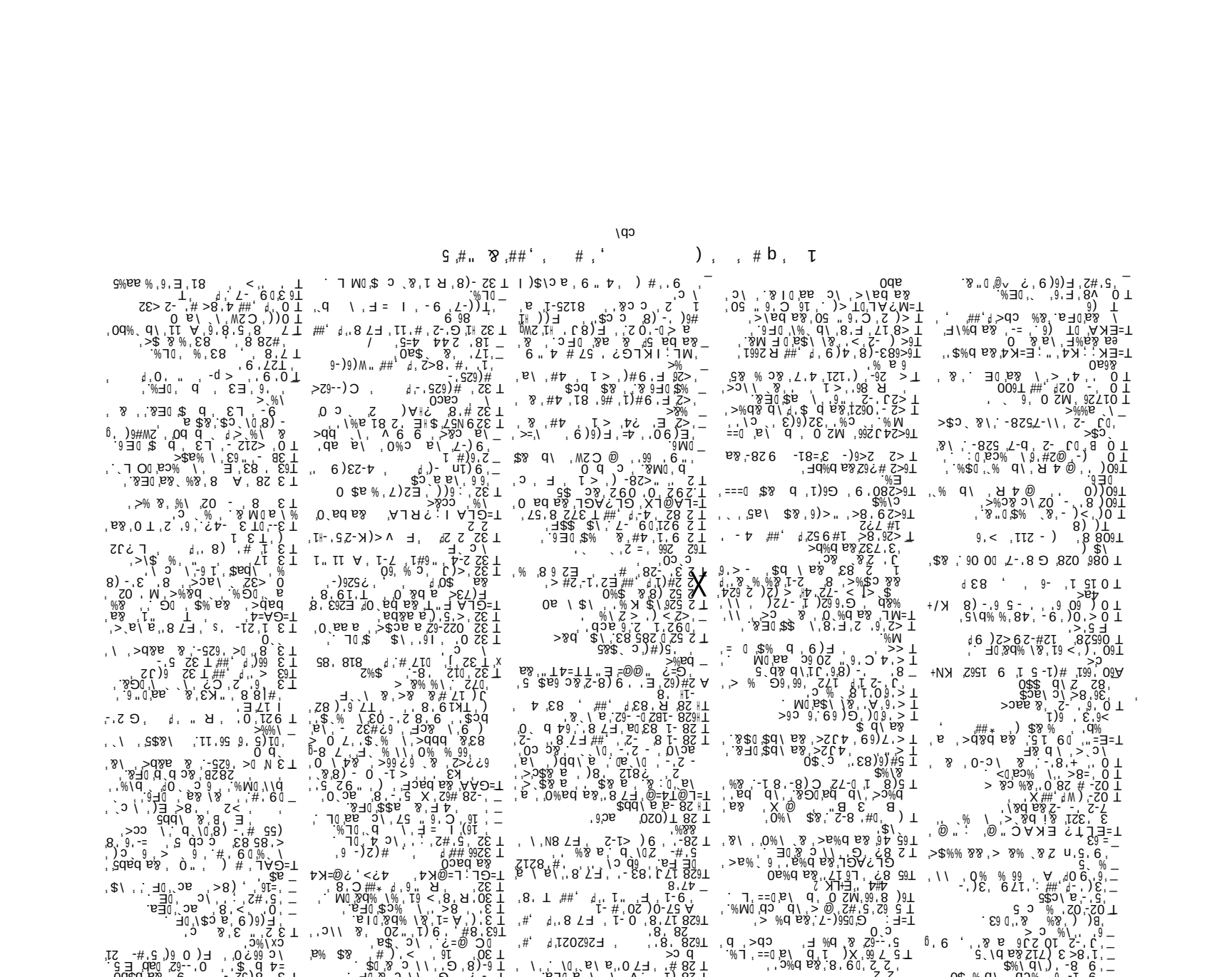


Thofehrn, H. **7**-107d.
Thois, marquises of **12**-281b.
Thoissey, Fr. **8**-395d.
Thok-amar, Tib. **6**-168 (C3).
Thok-daurakpa, Tib. **6**-168 (D3).
Thok-marshera, Tib. **6**-168 (D3).
THOKOLY, IMRE (Emerich), prince **26**-861b; **13**-913c.
Tholayer (Tholey) beds **21**-176d; **21**-177b.
Thölde, Johann: *see* Valentine, Basil.
Tholeite **8**-144c; **8**-387c.
Tholen, W. **20**-509b.
Tholinasterella **25**-729d.
THOLOBATE **26**-862a.
Tholos, Athens **2**-832 (map); **2**-834b; **22**-533d.
—, Epidaurus **9**-687c; **2**-379d; capital **5**-276d.
THOLOS (arch.) **26**-862a.
Tholozan, Joseph Désiré **21**-697c.
THOLUCK, F. A. G. **26**-862a.
Thom, James **3**-74b.
—, John Hamilton **17**-799a; **27**-595c.
—, William **8**-676c.
Thom, lake, Scot. **24**-418 (B3); **23**-98d; geology **23**-99a.
THOMA, HANS **26**-862d; **20**-511b; **14**-324c.
Thoman, Fédor **16**-877c.
Thomander, Johan Henrik **26**-219c.
Thomar, A. B. da Costa Cabral, count of **22**-153b.
THOMAR, Port. **26**-862d; **25**-530 (A3); **22**-147d.
THOMAS, ST (apostle) **26**-863a; **2**-770b; Ceylon legend **5**-778d; Indian mission **14**-624d, **12**-233a, **15**-885d.
—, St (Aquinas): *see* Aquinas.
—, St (Becket): *see* Becket, Thomas.
—, St (de Cantilupe): *see* Cantilupe.
— (Thomas Palaeologus: of Achaia) **20**-579d; **21**-534a.
— (Anglo-Norman poet) **2**-32c; **27**-293d.
— (Artsruni) **2**-573d.
— (of Bayeux): *see* Thomas (archbp. of York, d. 1100).
— (of Brotherton) **19**-742c; **9**-500d; estates **6**-81a, **10**-774b.
— (of Canterbury: fl. 1359) **8**-274b.
— (Francis of Savoy: prince of Carignano) **5**-336a; **25**-353a; **24**-256; military history **26**-857c, **27**-412c, **20**-971b.
— **(OF CELANO)** **26**-865a; **16**-939b; **14**-186c.
— (of Chantimpré) **23**-724c.
— (duke of Clarence) **6**-428b; **9**-512a foll.; **13**-284d; **1**-492c; in Ireland **14**-772d; steward of England **17**-4a.
— (of Coucy): *see* Thomas de Marle.
— (of Ely) **9**-302d.
— (of England) **15**-436d.
— (of Epirus) **9**-699b.
— **(OF ERCELDOUNE)** **26**-865b; **27**-293d; **9**-133d.
— (de Erdington) **28**-513a.
— (bastard of Fauconberg) **15**-734c.
— (bp. in Finland) **10**-385b.
— (son of Gospatric) **28**-555a.
— (ap Gwilim Jenkin) **13**-338d.
— (of Hales) **9**-610a.
— (of Harkel: bp. of Hierapolis) **3**-882b.
— (of Hatfield) **8**-709b; **25**-939b.
— (of Kana) **19**-408b.
— **(A KEMPIS)** **26**-863d; **14**-333a; **19**-126d.
— (of Learmont): *see* Thomas (of Erceldoune).
— (of London): *see* Becket, Thomas.
THOMAS (Magister) **26**-865a; **8**-191b.
— (bp. in Malabar: fl. 345) **26**-863c.
— (bp. in Malabar: fl. 1665) **19**-408c.
— (of Mancasola): *see* Thomas (bp. of Samarkand).
— **(OF MARGA)** **26**-865c; **19**-407d.
— (of Markenfield) **6**-685a.
— (de Marle) **7**-307d.
— (of Medsoph) **2**-574a.
— (despot of Morea) **15**-89a.
— (earl of Norfolk, d. 1338): *see* Thomas (of Brotherton).
— (à Novaria) **8**-196d.
— (Ostojić): *see* Stephen VI. (Thomas Ostojic: of Bosnia).
Thomas (counts of Piedmont): *see under* Savoy, House of.
— (the Rhymer): *see* Thomas (of Erceldoune).
— (bp. of Samarkand) **15**-512b.
— (counts of Savoy): *see under* Savoy, House of.
— (prince of Savoy, d. 1656): *see* Thomas (of Carignano).
— (of Spalato) **7**-774d.
— (bp. of Strengnäs) **26**-215a.
— (of Tolentino) **15**-512a.
— (of Villanova) **22**-264d.
— (of Woodstock): *see* Gloucester, duke of.
THOMAS (archbp. of York: d. 1100) **26**-864c.
— (archbp. of York: d. 1114) **26**-864d; **23**-365a.
— (of Zante and Cephalonia) **9**-699b.
—, A. (archaeologist) **8**-208a.
—, Abel Charles **17**-77a.
—, Alexandre Gérard **11**-139b.
—, Sir Anthony **10**-257a.
—, **ARTHUR GORING** **26**-865d; **19**-84c.
—, Augustus **8**-538a.
—, Sir Brumwell **3**-664a; **25**-937b.
—, **CHARLES LOUIS AMBROISE** **26**-866a.
—, Ebenezer **5**-649b.
—, Emile **19**-273a.
—, Francis **6**-25a.
—, **GEORGE** **26**-866b; **17**-112b; territories acquired **12**-952b, **3**-845a, **13**-526c.
—, **GEORGE HENRY** **26**-866c; **1**-820a; Atlanta campaign **1**-825b, **2**-854b; Chickamauga and Chattanooga **1**-823b, **6**-130a, **6**-8b; Nashville campaign **1**-825c, **19**-247b.
—, Grosvenor **20**-502a.
—, H. Wright **4**-61b.
—, **ISAIAH** **26**-867a.
—, Jacques Léonard **6**-482a.
—, J. Havard **24**-503c; "Lycidas" **24**-505 (Pl. IV.).
—, John Evan **4**-484a; **3**-984b.
—, J. W. (chemist) **6**-588c.
—, Lorenzo **15**-462b.
—, M. (inventor) **4**-973c.
—, Percy **9**-806c.
—, **PIERRE** **26**-867b.
—, Seth **6**-952d.
—, **SIDNEY GILCHRIST** **26**-867c; **14**-820b.
—, **THEODORE** **26**-867d; **6**-372b.
—, W. F. (artist) **5**-333c.
—, William (poet): *see* Islwyn.
—, **WILLIAM** (soldier) **26**-868a.
—, William (bp.) **26**-868b; **19**-736d.
—, William F. **24**-744c.
—, William Moy **24**-239c.
—, *v.* Pritchard (1903) **7**-224b.
—, *v.* Quartermaine **4**-342c.
—, *v.* Sorrell **8**-315a.
Thomas, Ill. **14**-304 (C2).
—, Ky. **15**-740 (F3).
—, Mich. **18**-372 (F1).
—, Mont. **14**-276 (B-C2).
—, Okla. **20**-58 (C2).
—, Oreg. **20**-242 (C3).
—, Pa. **21**-106 (B5).
—, Wash. **28**-354 (H4).
—, W.Va. **28**-560 (D2).
—, cape, Wrangell I., Arct. **21**-938 (B1).
—, fort, Ky. **19**-534a.
—, lake, Me. **17**-434 (B4).
—, mt., Austr. **2**-960 (F3).
—, mt., Ariz. **2**-544 (D3).
—, pt., La. **17**-54 (a5).
Thomas, Acts of **2**-182c; **26**-312c; **26**-863b; Eucharistic usage **9**-871c; holy water **13**-623b.
Thomas and Prevost, Messrs. **18**-151a.
Thomas, Apocalypse of **2**-175a.
Thomasboro, Ill. **14**-304 (D3).
Thomas Co., Ga. **11**-752 (C5); **11**-751d.
— Co., Kan. **15**-654 (A-B1).
— Co., Neb. **19**-324 (D3).
— Creek, riv., Fla. **10**-540 (E1).
— Fork, Ark. **2**-552 (E1).
— Fork, riv., Oreg. **20**-242 (C3).
Thomas, Gospel of (Christian) **2**-180c; **16**-879b.
Thomas, Gospel of (Gnostic) **2**-181a.
Thomasin von Zirclaere (Zirclaria, Zirklâre) **11**-786b.
Thomasites: *see* Christadelphians.
THOMASIUS, CHRISTIAN **26**-868b; **6**-459d; **27**-765c.
—, Jakob **16**-385a; **26**-868b.
Thomason, Franklin **19**-560d.
—, **GEORGE** **26**-868c.
—, James **16**-306d.
Thomason Civil Engineering College **23**-706d.
— collection **26**-868d; **4**-878b.
Thomas petrol-electric system **18**-930a.
— revolver **21**-655d.
Thomasset's testing machine **25**-1011b.
Thomaston, Ala. **1**-460 (B3).
—, Conn. **6**-952 (C3).
—, Ga. **11**-752 (B3).
—, Me. **17**-434 (C4); **17**-438a.
—, Mich. **18**-372 (B4).
—, Tex. **26**-690 (K-L6).
Thomastown, Ire. **14**-744 (D4); **15**-793d.
—, La. **17**-54 (C1).
Thomasville, Ala. **1**-460 (B4).
—, Colo. **6**-722 (D2).
THOMASVILLE, Ga. **26**-868d; **11**-752 (C5); **11**-755a.
—, Ill. **14**-304 (C4).
—, N.C. **19**-772 (B2).
—, Pa. **21**-106 (I6).
Thomaswaldau, Ger. **13**-571b.
Thombia, isl., Pac.O. **10**-335 (C1).
Thome, J. M. **21**-530c.
Thomire, Pierre Philippe **5**-837c.
Thomisidae **2**-306d; **25**-665a.
Thomism **24**-354b; **18**-253a.
Thomisus **2**-306d.
Thomomys **21**-872d; **23**-440c.
THOMOND, EARL AND marquess of **26**-869a.
—, Connor O'Brien, 3rd earl of **26**-869a; **8**-98d.
—, Murrough O'Brien, 1st earl of **14**-354b; **26**-869a; **6**-427b.
Thomond, anc. dist., Ire. **19**-12c; **6**-427b; Dalcais dynasty **14**-766a; English overlordship **14**-771a; O'Brien family **14**-767b, **14**-772b.
Thompson, Alfred **26**-735d.
—, Benjamin: *see* Rumford, count.
—, David **5**-165d; **19**-783b.
—, Denman **8**-538a.
—, Elizabeth: *see* Butler, Lady.
—, Sir E. Maunde **4**-199a.
—, **FRANCIS** **26**-869c; **9**-644d.
—, George (anti-slavery leader) **11**-479b.
—, George (explorer) **11**-438b.
—, George Poulett: *see* Scrope, George Poulett.
—, **SIR HENRY** **26**-869d.
—, John R. **23**-310b.
—, **SIR JOHN SPARROW** **26**-870c; **5**-163a; **3**-777a.
—, John Vaughan **28**-1029c; barnacles **3**-409d, **18**-669d.
—, **LAUNT** **26**-870d; **24**-516b.
—, Lewis **11**-275b; **12**-199d.
—, R. C. (archaeologist) **3**-657a.
—, Silvanus Phillips **17**-335b.
—, **THOMAS PERONNET** **26**-870d; **4**-341c.
—, W. (pugilist) **22**-639a.
—, William (economist) **1**-915d; **25**-302b.
—, **WILLIAM HEPWORTH** **26**-871a; **10**-443b; **21**-811a.
—, William Tappan **1**-841b.
— *v.* Lacy (1820) **4**-95b.
— *v.* Rourke (1893) **15**-122c.
Thompson, Ala. **1**-460 (D3).
—, Ark. **2**-552 (B2).
—, Conn. **6**-952 (H2).
—, Ia. **14**-732 (D1).
—, Mich. **18**-372 (D4).
—, Mont. **14**-276 (B2).
—, N.Dak. **19**-780 (G2).
—, Norf. **9**-424 (IV. D1).
—, Pa. **21**-106 (L2).
—, isl., Mass. **17**-852 (B-C4); **8**-423d.
—, lake, Me. **17**-434 (B4).
—, lake, Mont. **14**-276 (B1).
—, lake, N.Y. **19**-596 (B4).
—, lake, S.Dak. **25**-506 (H3).
—, pass, Ida. and Mont. **14**-276 (B2).
—, riv., Can. **4**-600 (E3); **11**-39d.
—, sound, N.Z. **19**-624 (A6).
—, (East), Conn.: *see* East Thompson.
—, (North), Can.: *see* North Thompson (B.C.).
— Creek, riv., S.C. **25**-500 (D-E2).
— Indians, tribe **14**-465b.
— Run, riv., Pa. **21**-106 (E7).
Thompsons, Utah **27**-814 (E3).
— Creek, riv., La. **17**-54 (a5).
— Creek, riv., Miss. **18**-600 (D4).
— Fork, riv., Ia. **14**-732 (C-D4).
— Holme, isl., Westm. **28**-708c.
— Station, Tenn. **26**-620 (E2).
Thompsontown, Pa. **21**-106 (H4).
Thompsonville, Conn. **6**-952 (E1); **9**-403b.
—, Ill. **14**-304 (D6).
—, Mich. **18**-372 (D5).
Thoms Cove, inlet, Md. **17**-828 (B4).
Thomsen, C. J. **7**-97a; **8**-43a.
—, **GRIMUR** **26**-871b; **14**-240c.
—, **HANS P. J. J.** **26**-871b; **6**-30a; **26**-805b; heats of combustion **6**-57a, **6**-69c.
—, V. **9**-861b; **10**-386c; **8**-43a.
Thomsenolite **7**-562c.
Thomson, Allen **23**-118d.
—, Basil **27**-5a.
—, **SIR CHARLES WYVILLE** **26**-871c.
—, David **22**-133a; **19**-496a.
— (of Duddingston): *see* Thomson, John.
—, Elihu **18**-292b; **28**-502b.
—, F. R. **23**-264d.
—, Gaston Arnold Marie **10**-891a; **10**-893c.
—, George (musician) **4**-483a; **4**-857c.
—, George (painter) **20**-499d.
—, George (soldier) **11**-918c.
—, Gordon **5**-333c.
—, Hugh **14**-323d.
—, James (divine) **26**-875d.
—, **JAMES** (poet) **26**-871d; **9**-632d; **8**-529d; Collins's elegy **6**-693b; French literature influenced **11**-135c.
—, **JAMES** (scientist) **26**-874b; **14**-227b; capillary action **5**-266c; hydraulics **14**-48c, **14**-72a; dynamometer **8**-782d; isothermal curves **27**-898b; on stress **25**-1017c; turbines **14**-98d, **14**-102c.
—, **JAMES (B. V.)** (poet) **26**-873c; **16**-458b.
—, John (mathematician) **16**-874d.
—, **JOHN** (of Duddingston) **26**-874c.
—, John Arthur **24**-748a.
—, **JOSEPH** (explorer) **26**-875a; on Masai customs **17**-835a; **27**-560c.
—, Sir Joseph John: atmospheric electricity **18**-279c; **18**-290b; conduction through gases **6**-874a foll., **6**-890a; electron theory **24**-402a, **9**-237a, **17**-351a; magnetization **17**-341c; matter **17**-892c.
—, Leslie **20**-501c.
—, Sir Ronald **21**-242c.
—, Thomas (botanist) **26**-875d.
—, **THOMAS** (chemist) **26**-875c; Glasgow laboratory **6**-38c.
—, **WILLIAM** (archbp. of York) **26**-876a; **28**-928c.
—, William (scientist): *see* Kelvin, 1st baron.
—, William (Maori chief): *see* Tamihana.
Thomson, Ga. **11**-752 (D2).
—, Ill. **14**-304 (B2).
—, Minn. **18**-550 (E4).
—, lake, Nfd. **19**-479 (B1).
—, riv., Austr. **2**-960 (G4).
—, riv., Vict. **28**-38 (D3); **24**-61c.
Thomson arc lamp **16**-666a.
— effect **26**-817a.
Thomsonite **28**-973b.
Thomson's Creek, riv., Vict. **28**-38 (E1).
Thon, riv., Fr. **10**-778 (F-G2).
Thonar (myth.): *see* Thunar.
Thondhe, India **14**-376 (G3).
Thoneisenstein **16**-700c.
Thônes, Fr. **10**-778 (H5).
Thôngwa, Bur. **4**-840 (E6).
—, dist., Bur. **4**-840 (D6).
Thonmi (Tonmi: writer) **26**-919c.
Thonner, Dr Franz **3**-359b.
Thonon-les-Bains, Fr. **10**-778 (H4); **13**-74d.
Thonotosassa, Fla. **10**-540 (D3).
Thöny, E. **5**-334d.
Thonzè, Bur. **26**-727a.
Thooids **5**-371a.
Thoolabool, mts., N.S.W. **19**-538 (C2).
Thoösa (myth.) **22**-37d.
Thopas, Sir (of Chaucer) **2**-587c.
Thopia (family) **1**-486c.
THOR (myth.) **26**-876b; **19**-142a; *Edda* legends **8**-922b; fire legend **10**-400c.
Thor, Ia. **14**-732 (C2).
—, Minn. **18**-550 (D4).
Thoracentesis **21**-838a.
Thoracica **26**-905d.
Thoracic duct **17**-167c; lymph **17**-162d.
— nerve **19**-399b.
Thoracometer **23**-192b.
Thoracostei **26**-545a; **14**-268b.
Thoralby (Yorks.) **9**-412 (I. D4).
Thoranius (Toranius), Gaius **25**-614c.
THORAX **26**-876c; **1**-941a; **25**-170d; cerebral centre **4**-411c; dilatation **23**-193d.
THORBECKE, JAN RUDOLF **26**-876c; **1**-897b.
Thorbjörn Hornklofi **14**-234a.
Thorburn, Sir Robert **19**-484a.
Thorchal, mts., Eur.: *see* Carpathian.
Thorda, Hung.: *see* Torda.
Thordsson, Sturla: *see* Sturla Thordsson.
Thoré, E. J. T. **18**-72a.
Thoré, riv., Fr. **10**-778 (E6); **26**-429a.
Thorea **1**-591d.
Thoreaceae **1**-594a.
THOREAU, HENRY DAVID **26**-877a; **1**-838c.
Thoreau, N.Mex. **19**-520 (B2).
Thored (viking) **28**-554c.
Thorell, T. **16**-720c; **9**-659a.
Thorenberg, mt., Luxemburg: *see* Herrenberg.
Thoresby, North, Lincs. **9**-416 (II. G3).
— Park, seat, Notts. **7**-925a; **8**-651d.
Thoresen, Anne Magdalene **19**-817a.
Thorex **2**-584b.
Thorfinn, earl of Orkney and Caithness **17**-197a; **26**-170c; church built **25**-1040c; Malcolm III. defeated **22**-49a.
— **KARLSEFNI** **26**-878a; **21**-939c; **28**-99b.
Thorgeir (legend) **14**-236d.
Thorgeis (viking): *see* Turgeis.
Thórgerdr Holgabrúdr (myth.) **26**-684c.
Thorgils (viking): *see* Turgeis.
Thorgils' and Haflidi's Saga **14**-238b.
Thorgils Skardi (d. 1258) **14**-232d; **14**-238b.
Thorgisl (viking): *see* Turgeis.
Thor Glocke, bell, Strassburg **3**-688d.
Thorhall (explorer) **26**-878b.
Thorhamn, Swed. **26**-190 (C-D3).
Thorhamns Udde, cape, Swed. **26**-190 (C-D3).
Thoria **26**-879a; gas mantles **16**-656c.
THORIANITE **26**-878c; **21**-663b; **13**-234a.
Thoricus, Gr. **12**-440 (F3). *See also* Thorikos.
Thorikos (Thoricus, Thoriko), Gr. **12**-424 (E-F3); **2**-884b; dome tombs **1**-245d; theatre excavated **2**-884c.
Thorild, Thomas **26**-218a; **15**-719c.
Thorir Hyrna **14**-765a.
Thorisind (of the Gepidae) **16**-932d.
Thorismund (Visigothic king) **25**-569b.
Thorisvatn, lake, Ice. **14**-228 (C2); **14**-228d.
THORITE **26**-878d; **18**-692b.
THORIUM **26**-878d; compounds **26**-879a; radioactivity **22**-794b, **22**-798b, **2**-867b.
Thorkel I. (Irish king): *see* Turgeis.
Thorkelin book collection **16**-557c.
Thorkelsson, Jon (the elder) **14**-241a.
—, Jon (the younger) **14**-241a.
Thorkil, Jarl (11th cent.) **5**-222b.
Thorlak, St (bishop) **14**-232d; saga of **14**-238d.
— Skulason (bishop) **14**-239d.
Thorlaksson, Gudbrand (bp. of Hólar): *see* Gudbrand.
—, Jon **14**-235c.
Thormod Kolbrúnarskald **14**-234c.
Thormodur Torfason (historian): *see* Torfaeus.
THORN, Ger. **26**-879b; **11**-808 (G2); peace (1411) **21**-905b; peace (1466) **21**-906b; railway to Skierniewice **21**-932b; siege (1657) **20**-402c; siege (1703) **5**-930c; Teutonic Order at **26**-677c.
—, lake, Oreg. **20**-242 (E4).
—, lake, Scot. **12**-548d.
THORN (bot.) **26**-879d; **25**-876d (fig.).
— (Teutonic letter) **9**-590c; **26**-321b; **7**-725b; rune **1**-728b.

THORNABY-ON-TEES (South Stockton), Yorks. **26**-880a; **9**-412 (I. F3).
Thornage, Norf. **9**-424 (IV. D1).
Thorn Apple, riv., Mich. **18**-372 (E7).
Thornapple, riv., Wis. **28**-740 (B-C3).
Thorn apple **25**-356c; **25**-357a; fluorescence **10**-576d; medical use **25**-982a, **19**-239d.
Thornback **22**-931a; **24**-595b; **14**-260b (fig.); netting **27**-222b.
Thornborough, John (bp. of Worcester) **3**-551c.
Thornborough, Bucks. **4**-727d; **4**-730b; **4**-729a.
Thornburg, Colo. **6**-722 (C1).
—, Ia. **14**-732 (E3).
—, Neb. **19**-324 (D4).
Thornburn, lake, Nfd. **19**-479 (C-D2).
Thornbury, Dev. **9**-430 (VI. D2).
—, Glos. **9**-420 (III. B3); population **12**-134b.
— castle, ruins, Glos. **12**-135b.
Thorn Creek, riv., Ind. **14**-422 (G2).
— Creek, riv., Pa. **21**-106 (C4).
Thorndale, N.S.W. **19**-538 (D2).
—, Pa. **21**-106 (I7).
—, Tex. **26**-690 (K5).
Thorndike, Mass. **17**-852 (C2); **20**-645c.
—, Me. **17**-434 (C4).
Thorndon, Suff. **9**-424 (IV. E2).
—, hall, Ess. **16**-942 (F2).
Thorne, James **3**-905.
—, Robert (d. 1527) **13**-849d.
—, Robert (fl. 1535) **28**-298b.
—, Whyte (pseud.): *see* Whiteing, Richard.
Thorne, N.Dak. **19**-780 (D-E1).
THORNE, Yorks. **26**-880a; **9**-416 (II. F2).
— composing machine **27**-546a.
Thorner, Yorks. **28**-933 (D1).
Thorne-Waite, R. **20**-502c.
Thorney, Cambs. **9**-424 (IV. B1); **5**-99b; **3**-618a; geology **5**-97d.
—, isl., Herts. **1**-583a.
—, isl., Lond. **28**-549d.
—, isl., Sus. **9**-420 (III. F5).
Thornfield, Mo. **18**-608 (D5).
Thornford, Dorset. **8**-435a.
Thorngrave, dist., Wilts. **28**-699b.
Thornham, Norf. **9**-424 (IV. D1).
Thorn-headed worm **28**-12b.
THORNHILL, SIR JAMES **26**-880b; **8**-130c.
—, James (the younger) **26**-880c.
—, John **13**-567c.
Thornhill, Ala. **1**-460 (B1).
—, Dev. **21**-862 (map).
THORNHILL, Scot. (Dumfries.) **26**-880c; **24**-412 (E4); geology **8**-663d, **8**-664a.
—, Scot. (Perth.) **24**-418 (C2).
—, Va. **28**-118 (D-E2).
THORNHILL, Yorks. **26**-880c; **28**-933 (C2).
Thornhylle, dist., Wilts. **28**-699b.
Thornilee, Scot. **24**-418 (F3); **21**-39b.
Thorning, Den. **8**-24 (B2).
Thornley, Dur. **9**-412 (I. E3).
Thornliebank, Scot. **12**-81 (map); **22**-6d.
Thornton, Bonnell **6**-695b.
—, Sir Edward **2**-328d.
—, **HENRY** **26**-881a; **28**-631c.
—, William (architect) **28**-349c.
—, **WILLIAM THOMAS** (economist) **26**-881a.
Thornton, Ala. **1**-460 (D3).
—, Ark. **2**-552 (C4).
—, Bucks. **4**-729a.
—, Ia. **14**-732 (D2).
—, Lancs. (nr. Blackpool) **16**-139 (A1); **16**-140a.
—, Lancs. (nr. Liverpool) **16**-139 (A2).
—, N.H. **19**-490 (D4).
—, N.Mex. **19**-520 (D2).
—, Pa. **21**-106 (K7).
—, R.I. **23**-249 (B-C1).
—, Scot. **24**-418 (E2); **10**-339d.
—, Tex. **26**-690 (L4).
—, Wash. **28**-354 (H2).
—, W.Va. **28**-560 (D2).
—, Yorks. **28**-933 (A1).
—, Yorks. **28**-933 (B1).
—, abbey, Lincs., **9**-416 (II. G2); **1**-19d; **16**-716c.
—, isl., Pac.O.: *see* Caroline.
— Dale, Yorks. **9**-412 (I. G4).
Thornton Heath, Sur. **16**-942 (D3).
— le Fen, Lincs. **9**-416 (II. G3).
Thornton-Pickard shutter **21**-515c.
Thorntown, Ind. **14**-422 (D4).
Thornville, O. **20**-26 (F5).
Thornwood Common, Ess. **16**-942 (E2).
Thorny cane **2**-745d.
Thornycroft, Sir John **24**-939c.
THORNYCROFT, WILLIAM Hamo **26**-881a; **24**-503b; **24**-505 (Pl. IV.).
Thornycroft boiler **4**-147c.
— Schulz boiler **4**-147d.
— tractor **18**-930b.
Thorodd Runameistari **14**-238d.
THORODDSEN, JON THORTharson **26**-881c; **14**-240d.
—, Thorvald **14**-240d.
Thorofare, N.J. **19**-502 (B4).
Thorold, Sir John **4**-223b.
—, W. G. **26**-924d.
Thorold, Can. **20**-114 (C3).
—, gate, Oxford **20**-408d.
Thorolf (Norwegian noble) **14**-231d.
Thoros (of Edessa) **3**-245b.
— I. (of Lesser Armenia) **1**-944c; **6**-366a.
THOROTON, ROBERT **26**-881c.
Thoroton Society **26**-881d.
Thorough (Strafford's policy) **25**-978d.
Thoroughbred horse **13**-713a; **13**-719c; **13**-723b (Pl. II.).
Thorough draining: *see* Furrow draining.
Thorp, Charles **8**-709c.
Thorp, Nev. **5**-8 (E3).
—, Wash. **28**-354 (E2).
—, Wis. **28**-740 (C4).
— Arch, Yorks. **28**-933 (D1).
Thorpdale, Vict. **28**-38 (C-D3).
THORPE, BENJAMIN **26**-881d.
—, **JOHN** (architect) **26**-882a.
—, J. (inventor) **7**-305b; **25**-686c.
—, Thomas **24**-783c.
—, Sir T. E. **17**-379d; vapour density **8**-48a, **10**-578a.
—, Sir William **4**-516c.
Thorpe, Derby. **9**-416 (II. D3).
—, Norf. **9**-424 (IV. E1); geology **19**-745b.
—, Sur. **16**-942 (B3).
— Audlin, Yorks. **28**-933 (D2).
— Bay, Ess. **25**-510d.
— Cloud, hill, Derby. **8**-71a.
— Hall, Louth, Lincs. **17**-67a.
— Hesley, Yorks. **28**-933 (D3).
— le-soken, Ess. **9**-424 (IV. E3).
— Market, Norf. **9**-424 (IV. E1).
— on the Hill, Lincs. **9**-416 (II. F3).
— Satchville, Leics. **9**-420 (III. F1).
Thorp Spring, Tex. **26**-690 (I-K3).
Thor's, cave, Staffs. **5**-578b; **5**-579a.
—, riv., Scot.: *see* Thurso.
Thorsas, Swed. **26**-190 (C3).
Thorsbjaerg, Schleswig-Holstein **2**-18d; **4**-593b; **23**-852b.
Thorsby, Ala. **1**-460 (C3).
Thorshälla, canal, Swed. **17**-461c.
Thor's hammer (jewel) **24**-290 (Pl. III. fig. 9).
Thorshavn, isl., Faeroe Is. **9**-908 (E3); **10**-124b.
Thorshöfn, Ice. **14**-228 (D1).
Thors Nut, mt., Nor. **19**-804 (B2).
Thorssen, Anne **4**-303b; **4**-304a.
Thorsted, Den. **8**-24 (A2).
Thorstein, mt., Aus. **24**-106c.
Thorstein Hall of Side's Son (saga) **14**-236c.
Thorstein Oxfoot (saga) **14**-236d.
Thorsteinsson, Steingrim **14**-240b.
Thorstein the Staffsmitten (saga) **14**-236c.
Thorstein the White (saga) **14**-236c.
Thorstrup, Den. **8**-24 (A3).
Thorvald Ericsson **26**-878c.
Thorverton, Dev. **9**-430 (VI. E2).
THORWALDSEN, BERTEL **26**-882a; **10**-375a; **24**-499d; Aeginetan sculptures restored **1**-252a; Christiansborg palace **7**-96d; statue of **14**-230c; Tenerani's quarrel with **24**-513a.
Thorwaldsen, museum, Copenhagen **7**-96d.
Thorwald Tasaldi (saga) **14**-236d.
Thos, tribe **27**-5c.
Thosp (anc. Thospitis), dist., Arm. **27**-878a.
Thospia, Arm.: *see* Van.
Thospitis, lake, Arm.: *see* Van.
THOTH (myth.) **26**-882b; **7**-216b; **9**-56c; alchemy founded **1**-519c; baboon sacred to **3**-96d; books of **16**-545d; draughts invented **8**-547b; emanation from Ptah **9**-53a.
— (Egyptian month) **6**-315b; **9**-77d; **9**-78b.
Thothmes (name): *see* Tethmosis.
Thott, Birgitta **8**-40c.
—, Ivar **12**-277b.
—, Olaf **21**-277b.
Thott, library, Copenhagen **16**-576a.
Thou, Christophe de **26**-882c.
—, François Auguste de **10**-835d; **23**-304b.
—, **JACQUES AUGUSTE DE** **26**-882c.
Thouarcé, Fr. **10**-778 (D4).
THOUARS, Fr. **26**-883b; **10**-778 (D4); **8**-578b; battle (1793) **10**-856c; Carbonarist rising (1821) **5**-308b; Masséna acquires castle **17**-865c.
Thoucritus (Athenian) **12**-499b.
Thouet, riv., Fr. **10**-778 (D4).
Thought reading **6**-949a.
Thoughts on Education (J. Locke) **16**-846b; **16**-848d.
Thought transference: *see* Telepathy.
Thoulet, M. J. O. **19**-980b.
Thoulet's solution **8**-49b.
Thoune, Switz.: *see* Thun.
Thoung-Yin, riv., Asia **14**-498 (A3); **25**-2c.
Thouraki (sect): *see* Paulicians.
THOURET, JACQUES GUILlaume **26**-883c.
—, Michel Augustin **26**-883c.
Thouron, Jacques **18**-527b.
Thourout, Belg. **3**-668 (B1).
Thous **5**-371c.
Thousand, isls., Can. **24**-21d.
— isls., Java **15**-284 (B1); **15**-284b.
—, isls., Spitsbergen **21**-938 (B2); **25**-709b.
— **AND ONE NIGHTS** (tales) **26**-883d; **2**-273a; Burton's translation **4**-865b; Gaelic translation **5**-638d; Galland's French translation **11**-413a; Lane's translation **16**-168c; Rumanian version **23**-846d.
— Buddhas, Halls of, caves, Turkest. **27**-425d.
— Hills, mts., Java: *see* Sewu.
— Island Park, N.Y. **19**-596 (D-E1).
— Spring Creek, riv., Nev. **5**-8 (F1).
Thousenle, John de Marnix, lord of **19**-418a.
Thouvenel, Edouard Antoine **10**-870d.
Thouvenin, Louis Etienne de (soldier) **23**-326b.
— acoustic telemeter **22**-890c.
Thowt (myth.): *see* Thoth.
Thoyras, Paul de Rapin, sieur de: *see* Rapin.
THRACE, dist., Eur. **26**-885c; **27**-426 (D-E2); **23**-648 (E2); **23**-649 (E2); Ares worship **2**-455b; coins **17**-220a, **19**-880c; diocese **23**-649 (C4); Pelasgian inhabitants **21**-65a.
—: *History* **26**-885d; Brasidas's campaign (429 B.C.) **4**-433a; Bulgarian supremacy **4**-780b; Gaulish invasion (280 B.C.) **4**-496b; Goths plunder (321) **12**-272d; Lysimachus (323-281 B.C.) **17**-184a; Paulician colony **15**-438b; Philip of Macedon's victories **8**-11d; revolt (1204-1205) **3**-244d; Visigothic settlement (376) **13**-933b.
Thraces (gladiators) **12**-64c.
Thracia, dist., Eur.: *see* Thrace.
Thracidae **16**-124b.
Thraco-Illyrian languages **1**-485c; **14**-495b.
Thraetona (myth.) **21**-204a.
Thrale, Henry **21**-632c; **15**-469a; memorial, Streatham **25**-1006d.
—, Hester Lynch: *see* Piozzi.
Thrall, Cal. **5**-8 (B1).
THRALL (dict.) **26**-886c.
Thrandarjökull, glacier, Ice. **14**-228 (D2).
Thranite (oarsman) **24**-863b.
Thrapston, Northants. **9**-424 (IV. B2); **19**-769a; **19**-768c.
Thrasaetus harpygia: *see* Harpy.
Thrasamund (Vandal king) **27**-885a; **5**-431a; **25**-30d.
THRASEA PAETUS, P. Clodius **26**-886d; **2**-648c.
Thrasher, Miss. **18**-600 (D1).
Thrasher **18**-638a; **27**-633d.
—, brown: *see* Brown thrasher.
THRASHING **26**-887a; machines **26**-887d, **1**-395a.
THRASYBULUS (Athenian general) **26**-889a; **7**-960c; amnesty granted **1**-875c; Thasos **26**-727d.
— (of Miletus) **18**-443b; **12**-447b; Periander's advice **21**-144d.
— (of Syracuse) **26**-297b.
Thrasydaeus (of Agrigentum) **1**-423a; **9**-344d.
Thrasyllus, monument, Athens **2**-844d; **2**-882b.
Thrasymachus (of Chalcedon) **25**-419d.
THRASYMEDES (of Paros) **26**-889c.
Thratta (fish) **2**-830c.
THREAD (dict.) **26**-889c.
— (flax measure) **16**-726c.
— (screw) **17**-1004a.
— cells: *see* Nematocyst.
— lace (lava) **28**-183c.
Threadworm: *see* Oxyuris vermicularis.
THREAT **26**-889c.
Threave (in reaping): *see* Stook.
Thredling, dist., Suff. **26**-29b.
"Three acres and a cow" policy (1886) **9**-579a.
Three-bar motion (mech.) **17**-958b.
Three Birds, the Book of the **5**-647d.
Three bishoprics (Metz, Verdun, Toul): *see* Trois Evêches.
— **BODIES, PROBLEM OF** **26**-889d; **2**-804c.
— Bridges, N.J. **19**-502 (C2).
— Bridges, Sus. **9**-424 (IV. B4).
— Brothers, coral isl., Ind.O. **5**-800d.
— Buttes, mt., Colo. **6**-722 (H1).
— Buttes, mts., N.Dak. **19**-780 (C3).
— Castle, head, Ire. **14**-744 (B5).
— Chapters Controversy, The **15**-600b; **7**-10a; Pope Virgilius' attitude **28**-60b.
— Choirs, festival of the **12**-131b; **28**-822a.
— Cocks, Wales **4**-485c.
— colour process **22**-411b.
— Counties, asylum, Beds. **3**-621b.
— Creek, riv., Ark. and La. **2**-552 (C4).
Threecreeks, Ark. **2**-552 (C4).
Three Creeks, riv., S.C. **25**-500 (E2).
— crowns dispute (1548) **12**-734b.
— cushion cannon (billiards) **3**-939c.
— Days' Battle (1653) **8**-729d.
— decked (dict.) **24**-880b.
"Three denominations of dissenters" **3**-373a.
— Emperors' League (1872): *see* Dreikaiserbund.
— farthing piece **10**-191a.
— fetters of Greece, the: *see* Fetters of Greece.
— field system (agriculture) **1**-389d; **6**-779c; **23**-888b.
— Fingered Jack, mt., Oreg. **20**-242 (D3).
— Forks, Mont. **14**-276 (D3); **18**-615c.
— golden balls (pawnbrokers) **20**-973a.
— Henries, War of the **10**-831c.
— Hummock, isl., Tas. **26**-438 (A1).
— Kingdom period (China) **6**-195b.
— Kings (Manawatawa), isl., N.Z. **19**-624 (D1).
— Kings, shrine, Cologne **6**-697c; **21**-148a.
— Kings, Feast of the: *see* Epiphany, Feast of.
— Kings of the East: *see* Magi.
— Lakes, Wis. **28**-740 (D3).
— Leagues of Raetia: *see* Ober Bund, Gotteshausbund *and* Zehngerichtenbund.
— leaved agrimony: *see* Hepatica.
— leaved nightshade **19**-686c.
— Mile, lake, Me. **17**-434 (C4).
Three Mile, riv., Mass. **17**-852 (E3).
— Mile Creek, riv., Ia. **14**-732 (C3).
— mile limit (international law) **28**-409c.
Threenotch, Ala. **1**-460 (D3).
Three Oaks, Mich. **18**-372 (D8).
— Old Cat (game) **3**-458c.
Three Patriarchs, Testaments of the: *see Testaments of the Three Patriarchs.*
Three Pigeons, inn, Brentford, Mdx. **4**-496d.
— Pikes, peak, Northumb. **9**-412 (I. C3).
— Points, cape, Go.Cst. **12**-203 (B4); **12**-203b.
"Three Prelates" (battleship) **24**-903d.
Three-quarter-back (football) **10**-620c.
"Three Ravens" (song) **25**-404d.
THREE RIVERS (Trois Rivières), Can. **26**-889d; **22**-724 (D3).
— Rivers, Mass. **17**-852 (C2).
— Rivers, Mich. **18**-372 (E8).
"Three Sacred Ploughs" (festival) **2**-829d.
Threes and Fives (game of dominoes) **8**-404d.
Three Signs (Buddhism) **4**-743c.
— Sister Peaks, mts., Oreg. **20**-242c.
— Sorrows of Story-telling (Irish lit.) **5**-627c.
— spined stickleback **25**-916d.
— Springs, Pa. **21**-106 (F-G5).
Three-striped opossum **20**-139d.
Three Sugarloaves, mt., N.H. **19**-490 (D3).
— Swedish Crowns (astron.): *see* Boötes.
— Taverns, It.: *see* Tres Tabernae.
Three-toed sloth **8**-925a; **17**-521c.
— woodpecker **27**-633d.
Three Towns, Dev. **21**-861c.
— unities (in drama): *see* Unities, dramatic.
— wise men of the East: *see* Magi.
Threlkeld, Cumb. **9**-412 (I. B3).
Threlkeld *v.* Smith **11**-442c.
Thremmatology (biol.) **28**-1023d. *See also* Breeds and Breeding.
THRENODY (dict.) **26**-890a; **21**-618d.
Thresher: *see* Fox-shark.
Threshers (association) **14**-780b.
Threshfield, Yorks. **9**-416 (II. C1).
Threshing: *see* Thrashing.
THRESHOLD (dict.) **26**-890a.
Thria, Gr. **12**-440 (E2).
Thriasian, plain, Gr. **2**-883d; **9**-262c.
Thrift, Ga. **11**-752 (D3).
THRIFT **26**-890a; savings bank bonus **24**-244b.
— (bot.) **21**-627b; **13**-768c; **10**-572d.
Thrinax **21**-781a.
THRING, EDWARD **26**-890a.
—, Lord **6**-783c.
Thriplow Heath, Herts. **1**-377c.
Thrips: *see* Thysanoptera.
THROAT (anat.) **26**-890d.
— (flower) **10**-564b.
— (masonry) **17**-845c.
— (mus.): *see* Grain.
— Hospital, Lond. **17**-253c.
Throat-lash (harness) **23**-988c.
Throat seizing (knot) **15**-874c.
THROCKMORTON (Throgmorton), **Francis** **26**-891a.
—, Job **17**-750c; **27**-117c.
—, Sir John **26**-891a.
—, **SIR NICHOLAS** **26**-891b.
Throckmorton, Tex. **26**-690 (H2).
— Co., Tex. **26**-690 (H2).
Throgmorton Street, Lond. **25**-934b.
Throg's Neck, penin., N.Y. **19**-611b; **28**-607c.
Thrombin **4**-81d.
Thrombocyte: *see* Platelet.
Thrombogen **4**-82a.
Thrombokinase **4**-82a.
Thrombosis **18**-61d; apoplexy **2**-195c; gastric ulcer **11**-504d; pulmonary **23**-198c; pyaemia **15**-785b; varicose veins **27**-921a.
Thrombus **21**-446d.
Throndhjem, Nor.: *see* Trondhjem.
THRONE **26**-891d; **5**-801c; Cnossus example **7**-425 (Pl.

For Key to Contractions, etc., see Page 1.



Tijike, Sah. **11**-204 (C1).
Tijoca, pt., Braz. **4**-440 (G2).
Tijuana, Mex. **18**-318 (A1).
Tikal, ruins, C.Am. **5**-678 (B2); **5**-678c.
Tikamgarh, India : *see* Tehri.
—, fort, India **20**-170b.
Tikari, India **14**-376 (L7).
Tikchik, lake, Alsk. **1**-472 (F3).
Tikei, isl., Pac.O. **20**-436 (L6) ; **20**-966b.
Tikendrajit Singh **17**-583a.
Tik-guoa (myth.) : *see* Tsugoab.
Tikhoryetskaya, Cauc. **19**-841c.
Tikhsi, ancient country **9**-84a.
Tikhtengen, mt., Cauc. **23**-874 (II. C2) ; **5**-551b.
Tikhtozersk, Russ. **23**-872 (D2).
Tikhvin, Russ. **23**-872 (E7).
—, canal, Russ. **23**-872 (D-E4); **27**-489c ; **28**-907a.
Tikhvinka, riv., Russ. **23**-872 (E7).
Tiki (myth.) **19**-143b.
Tikirt, Mor. **18**-851 (D3).
Tikitere, val., N.Z. **23**-764c.
Tikkara (pirate) **7**-698d.
Tikkenlik, Turkest. **6**-168 (D1).
Tikki-Tikki, tribe : *see* Akka.
Tikmith **6**-316c.
Tikshosero, lake, Russ. **23**-872 (D2).
Tiku, isl., Sum. **26**-73b.
Tikvesh, Turk. **24**-87a.
Til, Arm. **2**-565 (C3).
Til (oil) : *see* Sesame oil.
— (plant) : *see* Sesame.
Tiladumati, atoll, Ind.O. **14**-382 (E16) ; **17**-486a.
Tilapa, riv., C.Am. **5**-678 (A3).
Tilapia (Chromis) **6**-360c ; **14**-251d (fig.).
Tilaran, mts., C.R. **5**-678 (D5); **7**-219d.
Tilas (Indian term) **26**-281b.
Til-Barsip, Mesop. : *see* Apamea.
TILBURG, Holl. **26**-970c ; **13**-588 (C3).
Tilbury (East), Ess. **16**-942 (F3).
— (West), Ess. **16**-942 (F3).
TILBURY, docks, Ess. **26**-970d ; **16**-942 (F3) ; **16**-950b ; dimensions **8**-356d foll. (plan).
"Tilbury" (dredger) **8**-564a.
Tilbury Tramp (pseud.) : *see* Lever, Charles James.
Tilda, India **14**-382 (I9).
Tilden, Douglas **24**-516c.
—, **SAMUEL JONES 26**-970d ; **27**-721c.
—, Sir William Augustus **5**-68b ; **6**-67d.
Tilden, Ala. **1**-460 (B3).
—, Ida. **14**-276 (C4).
—, Ill. **14**-304 (C5).
—, Neb. **19**-324 (G3).
—, Tex. **26**-690 (I7).
—, lake, Me. **17**-434 (C4).
TILE 26-971b ; **19**-17b ; **28**-280a ; Babylonian and Assyrian **5**-710c, **20**-484b ; Egyptian **9**-73b; German manufacture of **5**-739b ; Greek, ancient **26**-654a ; inscriptions **14**-635a ; Kashi **15**-686b ; paving **4**-527d ; roofing **23**-704c.
— copper **7**-104a.
— hook **8**-472b.
Tilehurst, Berks. **9**-420 (III. E4) ; **3**-783b.
Tile-ore **7**-635c.
Tiles, Day of the : *see* Day of the Tiles.
Tilestones **17**-113d.
Tilford, S.Dak. **25**-506 (B3).
—, Sur. **16**-942 (A4).
Tilgate, forest, Sus. **28**-436d.
— stone **28**-437b ; **26**-165d.
Tilghemt, Sah. **1**-643 (B2).
—, Tizi n', pass, Mor. **18**-851 (E2) ; **2**-859a.
Tilghman, B. C. **27**-36a.
Tilghman, Md. **17**-828 (G3).
—, isl., Md. **17**-828 (G3).
Tilgner, Victor **24**-514c.
Tilhal, India **14**-376 (H6).
Tilia (tree) : *see* Lime.
Tiliaceae **16**-693d ; **16**-328a.
Tiliaephyllum **20**-551a.
Tiligul, lake, Russ. **23**-874 (I. C3) ; **20**-4a.
Tilin, Bur. **4**-840 (D4).
Tiliqua **23**-166a : *see also* Cyclodus.
Tiliri, riv., C.Am. : *see* Sixola.
Tiljuga, riv., India **14**-376 (M7) ; **18**-710c.
Tilkerode-Abberode, Ger. **2**-44d.
Till, Master : *see* Riemenschneider, Tilman.
Till, riv., Lincs. **9**-416 (II. F3).
Till, riv., Northumb. **9**-412 (I. D1) ; **6**-114d.
Till (geol.) : *see* Boulder clay.
Tillak (Indian costume) : *see* Peshwaz.
Tilla-kari, college, Samarkand **24**-112d.
Tillamook, Oreg. **20**-242 (A2).
—, bay, Oreg. **20**-242 (A2) ; **20**-245a.
— Co., Oreg. **20**-242 (B2).
Tillandsia usneoides : *see* Spanish moss.
Tillangshong, isl., Ind.O. **4**-840 (B8).
Tillar, Ark. **2**-552 (D4).
Tillatoba, Miss. **18**-600 (C1).
Tillberga, Swed. **26**-190 (D2).
Tille, riv., Fr. **10**-778 (G4).
TILLEMONT, SEBASTIEN LE Nain de 26-975d ; **11**-134d.
Tiller, Oreg. **20**-242 (C5).
Tiller (ship) **23**-814a.
Tiller Crossroads, Ala. **1**-460 (D3).
Tillering (bot.) **12**-370b.
Tillery, N.C. **19**-772 (E1).
Tillet, Titon du **27**-1041a.
Tilletia **11**-336c ; **11**-339a.
— critici **28**-582c.
Tilletiaceae : *see* Bunt.
Tillett, Ben **4**-856a.
Till Eulenspiegel : *see* Eulenspiegel.
"Till Eulenspiegel" (R. Strauss) **25**-1004b.
TILLEY, SIR SAMUEL LEONard 26-976a ; **5**-162a.
Tillicoultry, Scot. **24**-418 (D2) ; **6**-417d.
Tillie, Pa. **21**-106 (H6).
Tillier, A. von **26**-264c.
Tillières-sur-Avvre, Fr. **10**-778 (E3) ; **9**-900d ; **2**-415c.
Tillingham, Ess. **9**-424 (IV. D3).
—, riv., Sus. **9**-424 (IV. D5).
Tillman, Miss. **18**-600 (B4).
— Co., Okla. **20**-58 (B-C3).
Tillo, Alexi A. **19**-692d.
TILLODONTIA 26-976b ; **17**-526a.
Tilloloy, Fr. **25**-393a.
Tillotherium **26**-976b ; **17**-526a.
TILLOTSON, JOHN 26-976c ; **28**-603d.
Tillsonburg, Can. **20**-114 (B3).
TILLY, JOHANN TZERclaes, count of **26**-976d ; Thirty Years' War **26**-852c, **28**-281c, **4**-131b.
—, William, of Selling : *see* Celling.
Tilly Foster, mine, N.Y. **13**-885a ; **24**-675d.
Tillynaught, Scot. **24**-412 (F2); **3**-314c.
Tilly-sur-Seulles, Fr. **10**-778 (D3).
Tilney All Saints, Norf. **9**-424 (IV. C1) ; **19**-746d.
Tilo, riv., India **14**-376 (I5).
Tilonko, *in re* (1907) **27**-227d.
Tilopteridaceae **1**-590c.
Tilos (Telos, Episcopi, Piscopia), isl., Aeg.S. **2**-760 (B4) ; **25**-734b.
Tilphossa (Tilphusian spring), spring, Gr. **7**-981a ; **26**-508c.
Tilpin (Tilpinus) : *see* Turpin.
Tilsby, John **21**-615b.
Tilshead, Wilts. **9**-420 (III. D4).
TILSIT, Ger. **26**-977c ; **11**-808 (H1) ; **18**-104b.
—, treaty of (1807) **1**-557c ; **19**-203b ; **22**-525d ; **23**-903a ; Great Britain, effect on **9**-554d ; secret articles of **2**-151d, **5**-187c.
Tilson, T. **12**-104c.
Tilston, Ches. **9**-416 (II. B3).
Tilt, riv., Scot. **12**-121d.
Tilt (plough) **21**-850c.
Tilt Cove, Nfd. **19**-479 (C2) ; **19**-481b ; pyritic smelting at **7**-105c.
Tilting (sport) **13**-727b.
— at the ring **22**-760d.
— bucket conveyor : *see* Gravity conveyor.
— coffer (furniture) **6**-107b.
Tilton, E. L. **2**-481c.
—, Theodore **3**-639d.
Tilton, Ark. **2**-552 (E2).
—, Leics. **9**-420 (III. F2).
—, N.H. **19**-490 (D5) ; **19**-495c.
—, harb., Nfd. **19**-479 (C-D2).
—, riv., Wash. **28**-354 (C3).
Tiltonsville, O. **20**-26 (I4).
Tilty, Ess. **9**-424 (IV. C3) ; **9**-785d.
Tilûr : *see* Houbara.
Tilurus, riv., Aus. : *see* Cetina.
Tim, Russ. **23**-872 (E5) ; **15**-953d.
—, lake, Me. **17**-434 (B3).
Timaeus (Egyptian king) **14**-175d.
TIMAEUS (Greek historian) **26**-977c ; **12**-513a ; **13**-528d ; history of Sicily **6**-306b.
Timaeus (Plato) **21**-823a ; **2**-857d ; **27**-9d.
Timagenes **27**-300a.
Timahoe, Ire. **14**-744 (D4) ; **22**-731d.
Timan Coast, dist., Russ. **23**-872 (G-H2).
—, mts., Russ. **23**-872 (H2-3) ; **28**-196d ; coal-fields **23**-871c.
TIMANTHES 26-978a ; **12**-487a.
Timar, riv., India **24**-651d.
Timar **27**-431a ; **27**-449b.
Timarat **27**-431d.
Timarau : *see* Tamarao.
Timarchus (Athenian) **1**-271c.
— (Median satrap) **18**-22a ; **7**-983a ; **21**-215a.
TIMARU, N.Z. **26**-978a ; **19**-624 (C6).
Timarun, mt., Syr. : *see* Karn Sauda.
Timavus (Timavo), riv., Aus. **12**-263a.
Timbales couvertes (mus.) **15**-763d.
Timbalier, bay, La. **17**-54 (D4).
—, isl., La. **17**-54 (D4).
—, pass, La. **17**-54 (D4).
Timballer (Heerpauker) **15**-765d.
Timbauba, Braz. **21**-178c.
Timber, mt., Cal. **5**-8 (C1).
TIMBER 26-978b ; Australian **2**-948d ; building **5**-391c, **2**-371a, **13**-811b ; Canadian **5**-150b, **4**-600a, **19**-830d, **20**-116a ; Chicago **6**-121d ; Croatian-Slavonian **7**-472d ; imports and exports **10**-647d ; joinery **15**-477c ; loading **24**-960a ; measurement of **18**-145d ; Pacific States **10**-659b, **5**-14c, **9**-901b, **28**-355b ; Rhine trade **23**-241d ; strength **25**-1009c; United States trade **10**-655a, **10**-658b ; Vermont **27**-1026d. *See also* Half-timber *and* Forests and Forestry.
Timber Belt, dist., Ala. **1**-459c.
— Creek, riv., Ia. **14**-732 (E3-2).
— Creek, riv., N.Dak. **19**-780 (A2).
— Creek, riv., N.Dak. **19**-780 (B3).
— Creek, riv., S.Dak. **25**-506 (G3-2).
— Culture Acts (U.S.) **10**-653a ; **13**-640a.
— hitch (knot) **15**-872d.
— **LINE** (geog.) **26**-981b.
— Ridge, Va. **28**-118 (C3).
Timberscombe, Som. **9**-430 (VI. E1)
Timber Valley, Wash. **28**-354 (D4).
Timberville, Miss. **18**-600 (C2).
TIMBER-WOLF 26-981c ; **27**-634b.
Timble, Yorks. **9**-416 (II. D2).
Timblerjoch, pass, Alps : *see* Timmeljoch.
Timbo, Braz. **4**-440 (K4).
—, Braz. **4**-440 (H4).
—, Fr.Guin. **11**-204 (B-C4) ; **11**-102d ; **25**-56d.
Tim Bobbin : *see* Collier, John.
Timboon, Vict. **28**-38 (B3).
Timbre (mus.) **25**-449a ; **22**-562c.
Timbrebongie, N.S.W. **19**-538 (D-E3).
TIMBREL (tabret) **26**-981c.
TIMBS, JOHN 26-981d.
Timbuctoo, Fr.W.Af. : *see* Timbuktu.
Timbugpoyo, Ec. **8**-913d.
Timbuhy, riv., Braz. **9**-775b.
TIMBUKTU, Fr.W.Af. **26**-981d ; **11**-204 (F2) ; **24**-642a ; **11**-438a ; Caillié's visit **4**-949a ; Laing murdered **16**-83c.
Timbús, tribe **2**-468b.
Timbwe, estuary, Port.E.Af. **28**-952d.
Time, Iv.Cst. **11**-204 (D4).
—, Nor. **19**-804 (A3).
TIME (chron.) **26**-983b ; **6**-305d.
— (mus.) **23**-278d ; **19**-86d.
— (myth.) : *see* Chronos.
— (philos.) : *see* Space and Time.
— **BARGAINS 26**-988c ; **11**-449b.
— cribbing **7**-433a.
—, equation of : *see* Equation of Time.
Timelidae : *see* Babbling-thrush.
TIME, MEASUREMENT OF 26-983b ; **11**-610d ; at sea **19**-291c ; calendar **4**-987d ; early methods **9**-47b, **18**-908d ; sundial **8**-149a.
Timenhor, anc. Egy. : *see* Damanhur.
Time policies : *see* Policy.
—, **STANDARD 26**-987b.
Times, The (Lond.) **19**-557c ; **28**-295d ; action against booksellers (1852) **22**-630b ; Lord Bramwell's letters to **4**-419b ; Lord Brougham and **4**-654c ; Chenery's editorship **6**-77b ; Conroy *v.* **5**-128d ; Delane's editorship **7**-943c ; *Encyclopaedia Britannica* **9**-380a ; literary supplement **19**-548c ; parliamentary reporting **27**-493a, **23**-107c ; printing machines **22**-352d, **22**-356d ; Reeve's contributions **22**-975c ; H. Crabb Robinson's connexion with **23**-422c ; Sir W. H. Russell **23**-865c; scholarships **19**-558d ; Edward Sterling **25**-901a. *See also* Parnell Commission.
Times (New York) **19**-548c.
Times Atlas, The **19**-559a.
Times Book Club, The **22**-630c; **19**-558c.
Times Gazetteer **19**-559a.
Times History of the War in South Africa, The **19**-559a.
Timesitheus (Misitheus, Timesicles), C. Furnius **24**-804a.
Timesius (Timesias) of Clazomenae **13**-375a.
Times of Wales : see *Amserau Cymru.*
Time store (equity store) **1**-915d ; **16**-7a.
Times Weekly Edition (Lond.) **19**-558d.
Timetes chiron **5**-676b.
Time thrust (fencing) **10**-594b.
— wages **28**-230a.
Timewell, Ill. **14**-304 (B4).
TIMGAD (Thamugas), Alg. **26**-988c ; **1**-643 (C2) ; basilica **3**-471d ; forum **10**-729c ; library **16**-547d.
Timge, mts., Sah. **1**-320 (D-E3).
Timimun, Alg. **27**-352d.
Timing (boxing) **4**-351c.
Timislav : *see* Tomislav.
Timli, pass, India **7**-932c.
Timmele, Swed. **26**-190 (B3).
Timmeljoch, pass, Alps **1**-746d.
Timmerman, Franz **21**-289a.
Timmi, oasis, Alg. **27**-352d.
Timmonsville, S.C. **25**-500 (E2).
Timnath, Colo. **6**-722 (F1).
—, Pal. **24**-119d ; **21**-402c.
Timni, tribe, W.Af. **11**-102c ; **25**-55b ; **1**-329d (table) ; language **3**-357d, **3**-360d.
Timocharis **2**-810a.
Timocrates **18**-300b.
TIMOCREON 26-989a.
Timoe, isl., Pac.O. **20**-436 (M7).
Timok, dept., Serv. **24**-686 (C-D2).
—, riv., Serv. **24**-686 (D1) ; **4**-773 (A1) ; **24**-687a.
Timoleague, Ire. **14**-744 (C5) ; **7**-158a.
TIMOLEON 26-989a ; **26**-299c.
Timolin, Ire. **15**-791c.
TIMOMACHUS 26-989c ; **18**-19a ; **23**-180d.
TIMON (of Athens) **26**-989d.
TIMON (of Phlius) **26**-989d.
Timon, La. **17**-54 (A2).
Timoneda, Juan de **8**-507c.
Timon of Athens (Shakespeare) **24**-781c ; Purcell's music **22**-658c.
Timophanes (of Corinth) **26**-989a.
Timor (pasha of Nalbrits) **25**-265c.
Timor, cape, Mal.Arch. **17**-466 (G3).
TIMOR, isl., Mal.Arch. **26**-989d ; **17**-466 (F4) ; Bligh's voyage to **4**-59b ; pearl-shell trade **21**-25d ; Portuguese settlement **12**-159d.
—, resid., Mal.Arch. **17**-466 (C1 & E4-5) ; **26**-990c.
—, sea, Austr. **2**-960 (D2).
Timor Battas (of Sumatra) **3**-530a.
TIMOR LAUT (Timor Laoet), isls., Mal.Arch. **26**-990d ; **17**-466 (G4) ; fauna **23**-173b.
Timorodee (dance) **2**-453a.
Timosthenus (of Rhodes) **17**-635a.
Timotean, tribe **1**-812a.
Timotheus (of Alexandria) **5**-194b.
TIMOTHEUS (Athenian sculptor) **26**-991b ; **12**-488c.
TIMOTHEUS (Athenian statesman) **26**-991a ; **2**-843b ; **7**-960d.
— (gov. of Campania) **15**-155c.
— (Gegnesius) : *see* Gegnesius.
TIMOTHEUS (of Miletus) **26**-991c ; **12**-510d.
TIMOTHY (bibl.) **26**-991c ; **13**-191a ; **20**-945b ; at Thessalonica **26**-841a.
— (pseud.) : *see* Salvian.
— Aelurus (bp.) **18**-732c.
— I. (Nestorian Catholicus) **26**-316c.
Timothy, Wis. **28**-740 (F5).
Timothy (grass) **12**-368c ; **12**-376b.
"Timothy" (horse) **13**-733a.
TIMOTHY, FIRST EPISTLE to **26**-991d ; **20**-951d ; **3**-540d.
—, **SECOND EPISTLE TO 26**-993a ; **20**-952b.
Timpahute, mts., Nev. **5**-8 (F3).
Timpani con sordini (mus.) **15**-763d.
— coperti (mus.) **15**-763d.
Timpanogos, mt., Utah **27**-813d.
Timpas, Colo. **6**-722 (G4).
Timperley, Ches. **16**-139 (D3).
—, mts., W.Aus. **2**-960 (C5).
Timpie, Utah **27**-814 (B2).
Timpson, Tex. **26**-690 (N4).
Timring, Den. **8**-24 (A2).
Timrod, Henry **1**-840a ; **5**-943c.
Timsah, lake, Egy. **9**-22 (D2) ; **9**-22c ; **26**-23b.
Timuchi **5**-429d.
Timun, mt., Alps **1**-745c.
Timuquan, tribe **14**-455d ; **1**-811d.
Timur (Afghan ruler) **1**-316a ; **1**-431b.
TIMUR (Tamerlane) **26**-994a ; **27**-471d ; in Afghanistan **11**-924c, **14**-869d, **15**-633c ; Asia Minor invaded **2**-566b, **2**-760d, **27**-444c ; Bagdad captured **3**-198b ; Indian invasion **14**-402a, **18**-73b ; interview with Hafiz **12**-812c ; Persian conquests **21**-227c ; tomb at Samarkand **24**-112d.
— (Khan) **18**-714b ; **6**-197a.
— (Malik) **18**-718a.
— (Tash Pasha) **27**-443d.
Timurbogha : *see* Zahir.
Timurid, dynasty **21**-227c.
Timur Pasha, Russ.As. **15**-683a.
Timur's Castle, fort, Afg. **15**-633d.
Timuryalik (Seljuk ruler) : *see* Tukak.
TIN 26-995b ; **18**-504d ; alloys **1**-705d, **1**-707c, **16**-318b, **12**-196a ; compounds of **26**-996d ; dentistry **8**-51d ; detection **6**-62b, **6**-62c, **6**-63a ; food impurity **1**-227c, **10**-612d ; metal work **18**-207b ; money **18**-697c ; roofing **23**-703d ; stereo-isomerism **25**-894b.
— (metallurgy) **26**-995d ; **18**-204b ; ore-dressing **20**-241b.
—, butter of **26**-997c.
Tina, Mo. **18**-608 (C2).
—, Tun. **1**-359a ; **1**-360b.
—, site, Egy. : *see* Pelusium.
Tina (vat) **25**-114d.
Tinahely, Ire. **14**-744 (E4) ; **28**-619c.
Tinah Khan, Afg. **1**-37c.
Tinaja, riv., C.Am. **5**-678c.
Tinaja (jar) **5**-741d.
Tinaja Pinta, mts., Tex. **26**-690 (B4).
Tinaka, pt., P.Is. **21**-392 (E8).
Tinakula, isl., Pac.O. **24**-186c.
Tinalhas, Port. **25**-530 (B3).
Tinami (Tinamidae) : *see* Tinamou.
Tinamiformes **3**-977b ; affinities **3**-978a, **22**-918b.
Tinamotis **26**-998b.
TINAMOU 26-997d ; **3**-977b ; affinities **3**-978b, **22**-918a ; egg **9**-13d ; nestling plumage **10**-225c ; pelvic girdle **3**-964a.
Tinamus **26**-998a.
— maculosa **4**-444a.
— major : *see* Tinamou.
Tin-ash **26**-997a.
— bounding **25**-782d.
Tincal **4**-243c.
Tinca vulgaris : *see* Tench.
Tinchebray, Fr. **10**-778 (D3) ; battle (1106) **9**-478c, **20**-299a.
Tin chloride **8**-748d.
— crystals : *see* Tin salt.

Tinctura benzoini composita: *see* Friar's balsam.
— Chloroformi et Morphinae Composita **6**-257b; **18**-862c.
Tincture (her.) **13**-323b.
TINCTURE (pharmacy) **26**-998c; **10**-87a.
Tindah, Bor. **4**-257 (C2).
TINDAL, MATTHEW 26-998c; **7**-935c.
Tindal, isls., Pac.O.: *see* Ailuk.
Tindall, Henry **13**-807a.
TINDER (dict.) **26**-999b.
— box **17**-876b.
Tindoul de la Vayssière, chasm, Fr. **23**-446d.
Tinea: *see* Clothes moth.
— circinata **23**-352a.
— tonsurans: *see* Ringworm.
— versicolor **25**-191b.
Tinée, riv., Fr. **10**-778 (H5); **1**-723b.
Tineh, Ain et, spring, Pal. **11**-405b.
Tineidae **16**-472a; **11**-425a.
Tineides **16**-471a; **16**-466b.
Tinemaha, Cal. **5**-8 (D3).
Tin-enamel **5**-704b; **5**-730b.
TINEO, Sp. **26**-999b; **25**-530 (B1).
Tineosus, Gottfried: *see* Godfrey of Viterbo.
Tin, et, cape, Egy. **1**-568c.
Tin foil **10**-591a.
Ting (admiral) **6**-234a.
Ting, riv., Bur. **24**-103d.
Ting (assembly) **24**-855c.
T'ing (building) **6**-215a.
Ting (Chinese chron.) **6**-317d.
Tingal, isl., Jav.: *see* Trouwers.
Ting-an-hien, dist., China **12**-821c.
Tingaro, isl., Ind.O. **14**-382 (E14).
Ting-chow Fu, China **6**-168 (K4).
Tinge, Fr.W.Af. **11**-204 (F3).
Tingewick, Bucks. **9**-420 (III. E3).
Ting-fan, China **6**-168 (H4).
Tinggi, isl., Mal.Penin. **17**-473 (D5).
Tingha, N.S.W. **19**-538 (F2); **2**-952c.
Ting-hai, China **6**-168 (L4); **6**-350b; **6**-199b.
Tinghert, plat., N.Af. **27**-289c.
Ting-ho, riv., China **6**-168 (F5).
Tingidae **13**-260d; **11**-424c.
Tingitana, prov., Mor. **23**-648 (B3); **23**-649 (B3).
Tingis, Mor. **23**-648 (B3): *see also* Tangier.
Ting-Kiang, China: *see* Kiu-Kiang-Fu.
Tin glass: *see* Bismuth.
Tingley, Katherine **26**-790b.
Tingley, Ia. **14**-732 (C4).
—, Yorks. **28**-933 (C2).
Tinglid (brotherhood) **5**-222c.
Ting-ling, race **15**-828a.
Tingmiarmiut, Green. **12**-543 (E-F5).
Ting-nan, China **6**-168 (I5).
Tingry, princesse de **17**-144d.
Tingsås, Swed. **26**-190 (C3).
Tingstade, Swed. **26**-190 (E3); **12**-276d.
Ting-tsu, harb., China **6**-168 (L2); **16**-85a.
Tingua, mts., Braz. **22**-105a.
Tinguaite **22**-105a; **21**-329a; **16**-504a.
Tinguiririca, mt., Arg. **1**-962d; **6**-724b.
Tingvalla, isl., Swed. **15**-679c.
Tingwall, Scot. **24**-412 (G1); geology **24**-853d.
—, lake, Scot. **24**-854d.
Tingwick, Bucks. **4**-729a.
Ting-yao (porcelain) **5**-745b.
Ting-yuan-ting, China **6**-168 (H3).
Ting-yuen, China **6**-168 (G4).
Tinia (myth.) **9**-856d.
Tinia, riv., It. **6**-531c.
Tinian, isl., Pac.O. **20**-436 (D3); **17**-707d; **2**-83d.
Tiniane, Port.E.Af. **25**-466 (L-M5).
Tini Beg (Mongol khan) **18**-717d; **12**-209c.
Tinibras, mt., Alps **10**-778 (H5); **1**-741d.
Tinicum, Pa. **21**-106 (M5).
—, isl., Pa. **7**-949c.
Tinière, riv., Switz. **2**-115b.
Tinima, riv., Cu. **22**-634c.
Tiningnertok, mt., Green. **12**-543 (E5); **12**-544a.
Tin islands (myth.): *see* Cassiterides.
Tinja, lake, Tun.: *see* Bizerta.
Tinkcom, Wyo. **28**-874 (C1).
TINKER (artisan) **26**-999b; **12**-37b.
Tinker (tinkershire, bird): *see* Guillemot.
Tinkers, isl., Mass. **17**-852 (C-D3).
Tin-kum-song, Tib. **6**-168 (D3).
Tinley Park, Ill. **14**-304 (E2).
Tin Mogradaten, mt., Sah. **11**-204 (C1).
Tinmouth, Vt. **19**-490 (A5).
—, mts., Vt. **19**-490 (A5).
Tinna, riv., It.: *see* Tenna.
TINNE, ALEXANDRINE P. F. 26-999b; **10**-309a.
Tinne, J. C. **23**-785c.
Tinneh, tribe **1**-476c; **1**-813a; **19**-137a; industries **1**-813d.
Tinne Mac Conrath (king of Connaught) **6**-951a.
TINNEVELLY, India **26**-999d; **14**-382 (G15).
—, dist., India **26**-999d; **27**-216b; **21**-25b.
— cotton **7**-258b; **7**-258a.
Tinney, pt., Can. **5**-160 (E2).
Tinning **26**-996d; **4**-464b.
Tinniolum: *see* Tintinnabulum.
Tinnis, Egy. **9**-97c; **5**-49a.
—, castle, Scot. **21**-39c.
Tinnum, Ger. **8**-24 (A4); **26**-283d.
Tinnunculus: *see* Kestrel.
Tino, lighthouse, It. **16**-649.
Tinoceras: *see* Uintatherium.
Tinogasta, Arg. **5**-502b.
Tinopus antiquus **3**-522d.
Tinos, isl., Aeg.S.: *see* Tenos.
Tiñoso, cape, Sp. **25**-530 (E4).
TIN PLATE and TERNE Plate 26-1000a.
— Plate Workers (company) **16**-811a.
— pyrites: *see* Stannite.
— salt **26**-997b.
Tinsel (Scots law) **10**-296c.
Tinsjö, lake, Nor. **19**-804 (C3); **19**-800c.
Tinsley, Yorks. **28**-933 (D3).
Tinsley *v.* Lacy (1861) **7**-121a; **7**-121c.
Tin-stone: *see* Cassiterite.
Tinsunshi (myth.) **17**-99c.
Tint (colour) **6**-729b.
Tinta (wine) **17**-283a.
TINTAGEL, Corn. **26**-1000c; **4**-584 (A7); **23**-433c.
—, castle, Corn. **9**-430 (VI. C2).
—, head, Corn. **9**-430 (VI. C2); **7**-180a.
Tintah, Minn. **18**-550 (A4).
Tintazart, Mor. **18**-851 (D4).
Tintellust, Sah. **1**-320 (D3).
Tinténiac, Fr. **10**-778 (D3).
Tintern, abbey, Ire. **14**-744 (E4); **28**-566c.
TINTERN, abbey, Monm. **26**-1001a; **9**-420 (III. B3).
— Parva, Monm. **9**-420 (III. B3); **26**-1001a.
Tintic, Utah **27**-814 (B3); copper-mines **20**-88a, **6**-528a.
—, mts., Utah **27**-813d.
Tintina, Arg. **2**-462 (D2).
Tintinhull, dist., Som. **25**-390b.
Tintinnabulum **3**-687b.
Tintinnus **14**-561c; **14**-560a; **14**-559b (fig.).
Tinto, Camer. **5**-110 (A3).
—, hill, Scot. **24**-418 (D3); **16**-136d; geology **16**-137b.
—, hills, Scot. **24**-418 (D3).
—, riv., Hond. **5**-678 (D3).
—, riv., Sp. **25**-530 (B4); **13**-854b.
Tinton, S.Dak. **25**-506 (A3).
TINTORETTO, JACOPO Robusti 26-1001a; **20**-472d; **10**-365c.
Tintwa, mt., S.Af. **19**-252c; **8**-474d.
Tintwistle, Ches. **28**-933 (B3).
Tinui, N.Z. **19**-624 (F4).
Tinwald, N.Z. **19**-624 (C5).
Tin-white cobalt: *see* Smaltite.
Tiny, Can. **24**-225 (B3).
Tinyikum, tribe **27**-290a.
Tinzar, mt., Mor.: *see* Tagharat.
Tinzen, Switz. **26**-242 (H3).
Tinzenhorn, mt., Alps **1**-745c.
Tinzenthor, pass, Alps **1**-745c.
Tioga, Ia. **14**-732 (E3).
—, Ill. **14**-304 (A3).
—, Kan.: *see* Chanute.
—, La. **17**-54 (B2).
—, N.Dak. **19**-780 (A-B1).
—, Pa. **21**-106 (H2).
—, Tex. **26**-690 (B6).
—, W.Va. **28**-560 (C3).
—, riv., N.Y. **19**-596 (C3).
—, riv., Pa. **21**-106 (H2).
— Co., N.Y. **19**-596 (D3).
— Co., Pa. **21**-106 (H2).
Tioghe, riv., S.Af.: *see* Okavango.
Tiogue Reservoir, lake, R.I. **23**-249 (B2).
Tiola, Fr.W.Af. **11**-204 (D4).
Tioljuga, riv., India **14**-376 (M6).
Tiona, Pa. **21**-106 (D2).
Tionesta, Pa. **21**-106 (D3).
— Creek, riv., Pa. **21**-106 (D3-2).
Tioro, str., Mal.Arch. **17**-466 (E4-3).
Tioroniaradugu, W.Af. **11**-204 (D-E4).
Tiosa, Ind. **14**-422 (E2).
Tioughnioga, riv., N.Y. **19**-596 (D-E3).
Tipa **2**-463b.
Tipai Mukh, India **14**-376 (P7).
Tipalt Burn, riv., Northumb. **9**-412 (I. C2).
TIPASA, Alg. **26**-1003b; **1**-643 (B1).
—, Alg. (Constantine) **26**-1003d.
TIP-CAT 26-1003d.
Tiphiidae **18**-499d.
Tiphsah, Turk.As. **26**-725d.
Tipitapa, C.Am. **5**-678 (C-D4); **19**-643a.
Tipit conveyor **7**-56d.
Tiplersville, Miss. **18**-600 (C-D1).
Tipner, Hants. **22**-132 (map).
Tippah Co., Miss. **18**-600 (C-D1).
— Creek, riv., Miss. **18**-600 (C1).
Tippecan, lake, R.I. **23**-249 (A2).
Tippecanoe, Ind. **14**-422 (E2).
—, O. **20**-26 (H4).
—, lake, Ind. **14**-422 (F2); **14**-421c.
—, riv., Ind. **14**-422 (D3); battle (1811) **13**-25d, **26**-499b.
— City, O. **20**-26 (B5).
— Co., Ind. **14**-422 (D4).
TIPPERA, dist., India **26**-1003d; **14**-376 (O8).
—, state, India: *see* Hill Tippera.
—, tribe **15**-885b.
TIPPERARY, Ire. **26**-1004d; **14**-744 (C4); boycotting **14**-785c.
TIPPERARY, co., Ire. **26**-1004a; **14**-744 (D4); **14**-777b; Vikings **14**-764b.
—, hills, Ire.: *see* Slievenamuck.
Tippermuir, Scot.: battle (1644) **12**-411c.
Tippet **26**-137a; **6**-164d; academic dress **23**-414d.
Tippett, Nev. **5**-8 (F2).
Tipping's sand-plates **16**-604b.
Tippler (colliery) **6**-591d.
TIPPOO SAHIB (sultan of Mysore) **26**-1005a; **14**-410a; Cochin **6**-620a; Coorg **7**-92b; Cornwallis, Lord **7**-183c; library **16**-561c; Nagar massacre **19**-151a.
— Tib (chief) **6**-919c; **16**-815b; **25**-780d.
TIPSTAFF 26-1005b.
Tipsters (racing) **3**-827a.
Tipta-la, pass, China **6**-168 (D4).
Tiptoft, John, earl of Worcester: *see* Worcester.
Tipton, Ark. **2**-552 (C4).
—, Cal. **5**-8 (D3).
—, Ia. **14**-732 (F3).
—, Ind. **14**-422 (E4).
—, Mo. **18**-608 (D3).
TIPTON, Staffs. **26**-1005b; **25**-758 (A1); **23**-40c.
—, Va. **28**-118 (A3).
— Co., Ind. **14**-422 (E4).
— Co., Tenn. **26**-620 (B2).
— Creek, riv., Ia. **14**-732 (D2).
Tipton Slasher: *see* Perry, W.
Tiptonville, Tenn. **26**-620 (B1).
Tiptree Heath, Ess. **11**-264b.
Tiptur, India **14**-382 (G13).
Tipulidae: *see* Daddy-long-legs.
Tira (Tireh), Et, Pal. **20**-602 (B3); **11**-404c.
—, Et, Pal. **20**-602 (B-C4).
TIRABOSCHI, GIROLAMO 26-1005b; **14**-909b; **6**-807b.
Tirach-mir, mts., C.Asia **14**-376 (D2-1); **13**-513c; **13**-475c.
Tirade (lit.) **11**-111c.
Tiradentes, O.: *see* Silva Xavier, Joaquim José da.
"Tiradentes" (gunboat) **24**-914d.
TIRAH, dist., India **26**-1005c; **11**-924c; **13**-472c.
— **CAMPAIGN** (1897-1898) **26**-1005d; native troops **15**-672d, **15**-416d, **12**-749b; signalling **25**-73a.
Tirailleurs algériens (Turcos) **28**-1044d.
Tiran, Pers.: *see* Teheran.
—, isl., Arab. **1**-453c.
TIRANA, Turk. **26**-1006c; **27**-426 (A2).
Tirano, It. **15**-4 (C1); **26**-242 (I4); **27**-866a.
Tirano (dance) **7**-798c.
Tirano, El, Venez. **27**-991c.
TIRARD, PIERRE EMANuel 26-1006c; **10**-879b.
Tiraspol, Russ. **23**-874 (I. B3); **15**-776c.
Tirawari, India: battle (1191) **13**-484c.
Tir-Conaill, anc. dist., Ire.: *see* Tyrconnell.
TIRE (dict.) **26**-1006d.
— (of wheel) **26**-1007a; **25**-1019d.
Tireboli, Turk.As. **2**-760 (H2).
Tirechan (bp.) **20**-934b; **5**-623c.
Tiree marble **17**-677b.
Tir-eglwys, Scot.: *see* Terregles.
TIREH, Asia M. **26**-1009d; **2**-760 (B3).
—, Pal.: *see* Tira, Et.
Tirel, Walter **9**-477d; **6**-424a.
Tir-Eogan, dist., Ire.: *see* Tyrone.
Tiresias (legend): *see* Teiresias.
Tiretaine, riv., Fr. **6**-498c.
Tiretius, bridge, It. **18**-564b.
Tir Fiachrach, dist., Ire. **14**-759a.
TIRGOVISHTEA, Rum. **26**-1009d; **23**-826 (B2); **4**-718c; battle (1600) **28**-954d.
TIRGU JIU, Rum. **26**-1010a; **23**-826 (A2).
— **OCNA**, Rum. **26**-1010a; **23**-826 (C1).
Tirgului, riv., Rum. **5**-139d.
Tirhaka (of Egypt): *see* Tahrak.
TIRHUT, dist., India **26**-1010a.
Tirhutia (dialect): *see* Maithili.
Tiribazus (satrap) **2**-88b; **2**-662b.
Tirich Mir, mt., C.Asia: *see* Tirac Mir.
Tiridates (of Armenia) **12**-565d; **2**-568d; **11**-759a.
TIRIDATES I. (of Parthia) **26**-1010b; **2**-650b; **21**-218c; **20**-870d.
— **II. 26**-1010b; **21**-218b; **20**-871b.
— **III. 26**-1010b; **20**-871b.
Tirino, riv., It. **1**-73b.
Tiris, dist., Af. **1**-320 (B2).
Tirit, India **14**-376 (G2).
Tirite (bot.) **3**-483b.
TIRLEMONT, Belg. **26**-1010c; **3**-668 (E2); Neerwinden **19**-341 (plan), **19**-342a.
Tirley, dist., Staffs. **25**-759a.
Tirlogh (name): *see* Turlough.
Tirman, Louis **1**-652d.
TIRMIDHI 26-1010c.
Tirnest, mt., Mor. **18**-851 (F2).
Tirnovo, Bulg.: *see* Trnovo.
Tiro, M. Tullius **24**-1008b; **6**-356a.
—, Sabinus: *see* Sabinus Tiro.
Tiro, O. **20**-26 (E3).
Tirol, Braz. **4**-440 (D3).
TIROL, prov., Aus. **26**-1010c; **3**-16 (B3); **3**-9a; (hist. maps) **11**-834, **11**-856; constituencies **3**-38b; cotton industry **7**-299a; costume **7**-246c; dialect **8**-195b; forests **2**-973c, **10**-649d; forest fires **10**-401d; geology **20**-82a; as Habsburg possession **12**-788a, **12**-789c, **17**-922b; Hormayr **13**-693a; Italian language in **3**-32a; population **2**-972c; succession dispute **11**-847c.
— Alps, Aus. **1**-746b.
Tiroleses, tribe **12**-662b.
Tirolites **4**-802b; **27**-260c.
Tiron, riv., Sp. **25**-530 (D1); **16**-921d.
Tironian notes **17**-623d.
Tirpitz, Alfred von **11**-895d; **19**-310c.
Tirpul, Afg. **13**-331c.
Tirqa, Mesop. **18**-182b; **18**-180b.
Tirschenreuth, Ger. **11**-808 (D4).
Tirso (Thyrsus), riv., Sard. **15**-4 (B4); **15**-26 (B4).
TIRSO DE MOLINA 26-1012a; **25**-583c; **8**-508d; novels **25**-582d.
Tirso Imarete (pseud.): *see* Iriarte y Oropesa, Tomás de.
Tirsuli-Gandak, riv., India **14**-376 (L6-5).
Tir Tairngiri: *see* St Brendan's Island.
Tirthankara: *see* Jina.
Tirtha-yatra (pilgrimages) **13**-513a.
Tirtol, India **14**-382 (M9).
Tiruchchinappalli, India: *see* Trichinopoly.
Tiruchengod, India **14**-382 (G-H14).
Tirumala, mt., India **26**-1013a.
Tirumala Nayak (of Madura) **17**-296b.
Tirumangalam, India **14**-382 (G15).
Tirumanimuttar, riv., India **24**-61c.
Tirunelveli, India: *see* Tinnevelly.
TIRUPATI, India **26**-1013a; **14**-382 (H13).
Tirupatur, India **14**-382 (H14).
—, India **14**-382 (H13).
Tiruvalluvan (poet) **26**-390c.
Tiruvalumkodi, state, India: *see* Travancore.
Tiruvalur, India (Chingleput dist.) **14**-382 (H-I13).
—, India (Tanjore dist.) **14**-382 (H14); temple **14**-430d, **14**-431b (fig.).
Tiruvankur, state, India: *see* Travancore.
Tiruvannamalai, India **14**-382 (H-I3); **14**-33a.
Tirvia, Sp. **25**-530 (F1).
Tirydail, Wales **5**-356b.
TIRYNS, Gr. **26**-1013a; **12**-440 (D3); battle (*c.* 495 B.C.) **2**-479d; "Bull-fight" painting **1**-246 (Pl. I. fig. 2); citadel **12**-426d; excavations **1**-245b, **1**-250b, **2**-353d; palace **12**-441c, **2**-378a; pottery **2**-583d.
Tirzah, Pal. **18**-108d.
—, S.C. **25**-500 (C2).
Tisarn, lake, Swed. **26**-190 (C2).
Tisbury, Mass. **17**-787c.
—, Wilts. **9**-420 (III. C4); **28**-700c; **28**-698c.
— Great, pond, Mass. **17**-852 (F4); **17**-787b.
Tisbury stone **22**-122b.
TISCHENDORF, LOBEGOTT F. K. von 26-1014b; **3**-884b.
Tisch Mills, Wis. **28**-740 (F4).
Tischnowitz, Aus. **3**-4 (E2).
Tiscovač, Hung. **3**-4 (E4).
Tisdale, Kan. **15**-654 (F3).
Tis Esat, fall, Nile **27**-347d.
Tishabee, Ala. **1**-460 (A3).
Tishbeh, site, Pal. **9**-273b.
Tishinakamau, lakes, Can. **22**-724 (E1).
Tishitt, Sah. **11**-205 (D1).
— Dahar, oasis, Sah. **11**-204 (D1); **17**-564c.
Tishomingo, Okla. **20**-58 (E3).
— Co., Miss. **18**-600 (D1).
— granite **27**-631b.
Tishrin (chron.) **6**-315c.
Tisi, Benvenuto: *see* Tisio, Benvenuto.
Tisi (seed) **3**-731b.
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Tisias (rhetorician) **23**-233d; **12**-513a; **17**-182c.
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Tisjö, lake, Swed. **26**-190 (B1).
Tiskilwa, Ill. **14**-304 (C2).
Tisnaren, lake, Swed. **26**-190 (C2).
Tisri (chron.) **4**-1000d.
Tissandier, Gaston **1**-267d; **1**-268b; **1**-269b.
TISSAPHERNES 26-1015b; **21**-75a; **1**-522d.
TISSERAND, FRANCOIS Felix 26-1015c; **1**-656a.
Tissier, A. **1**-769b.
—, C. **1**-769b.
Tissington, Derby. **8**-73b; **8**-72a.
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—, **JAMES JOSEPH JACQUES 26**-1015d.
—, **PIERRE FRANCOIS 26**-1016a.
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Tissuary, isl., India: *see* Goa.
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— paper **12**-201b.
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Tissuvaddy, isl., India: *see* Goa.
Tissza, Kalman: *see* Tisza.
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—, India **14**-376 (N7).
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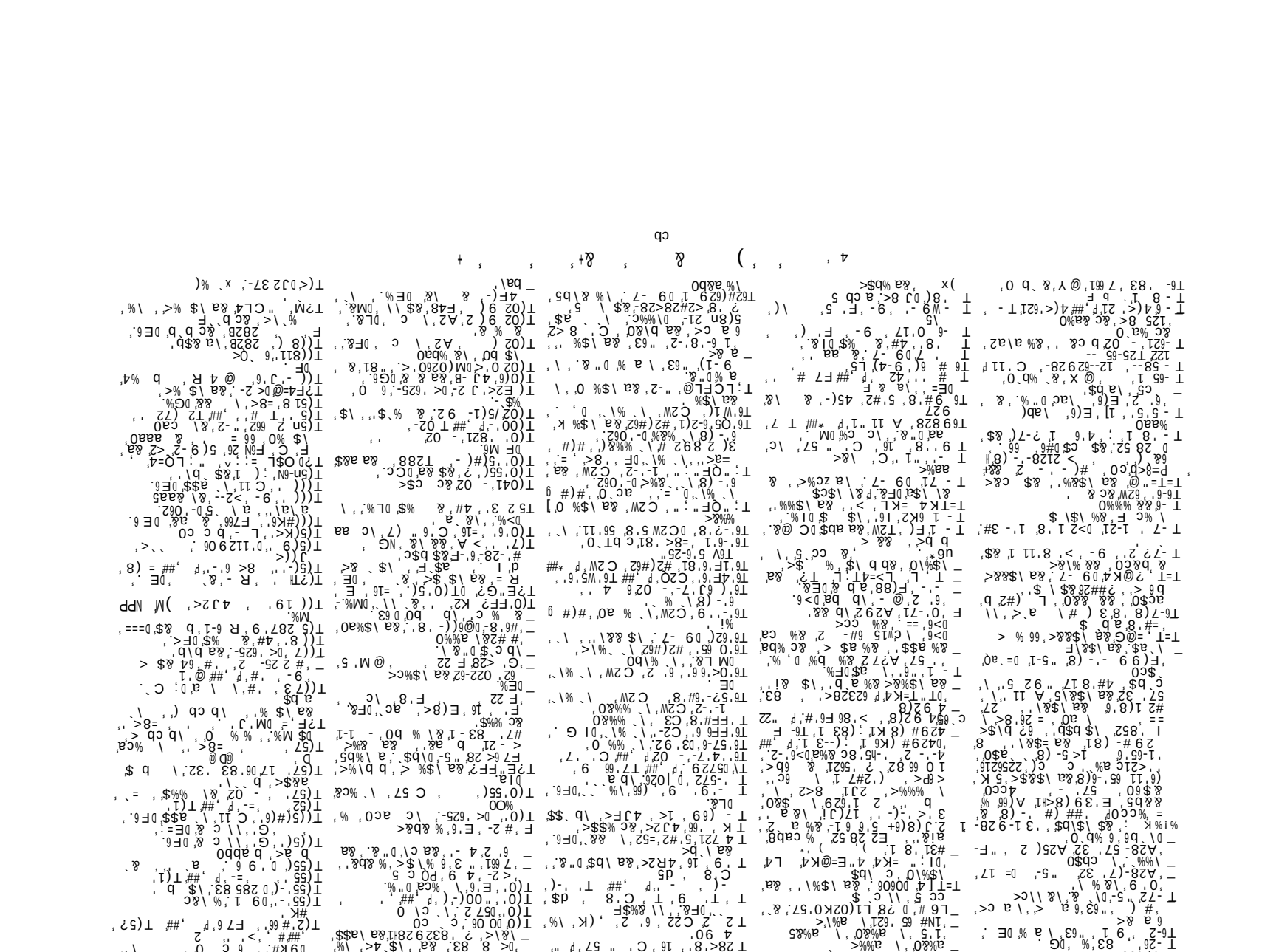
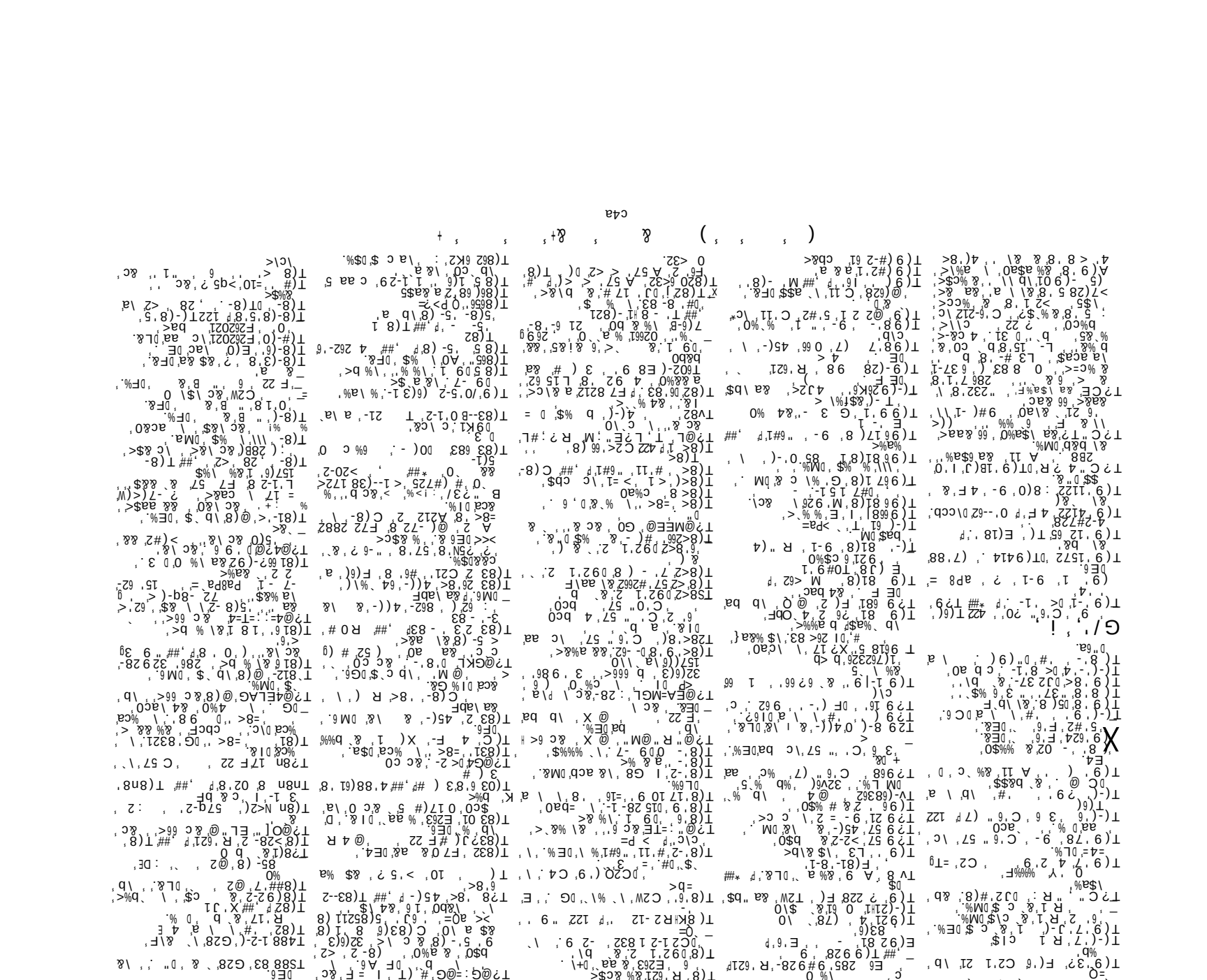
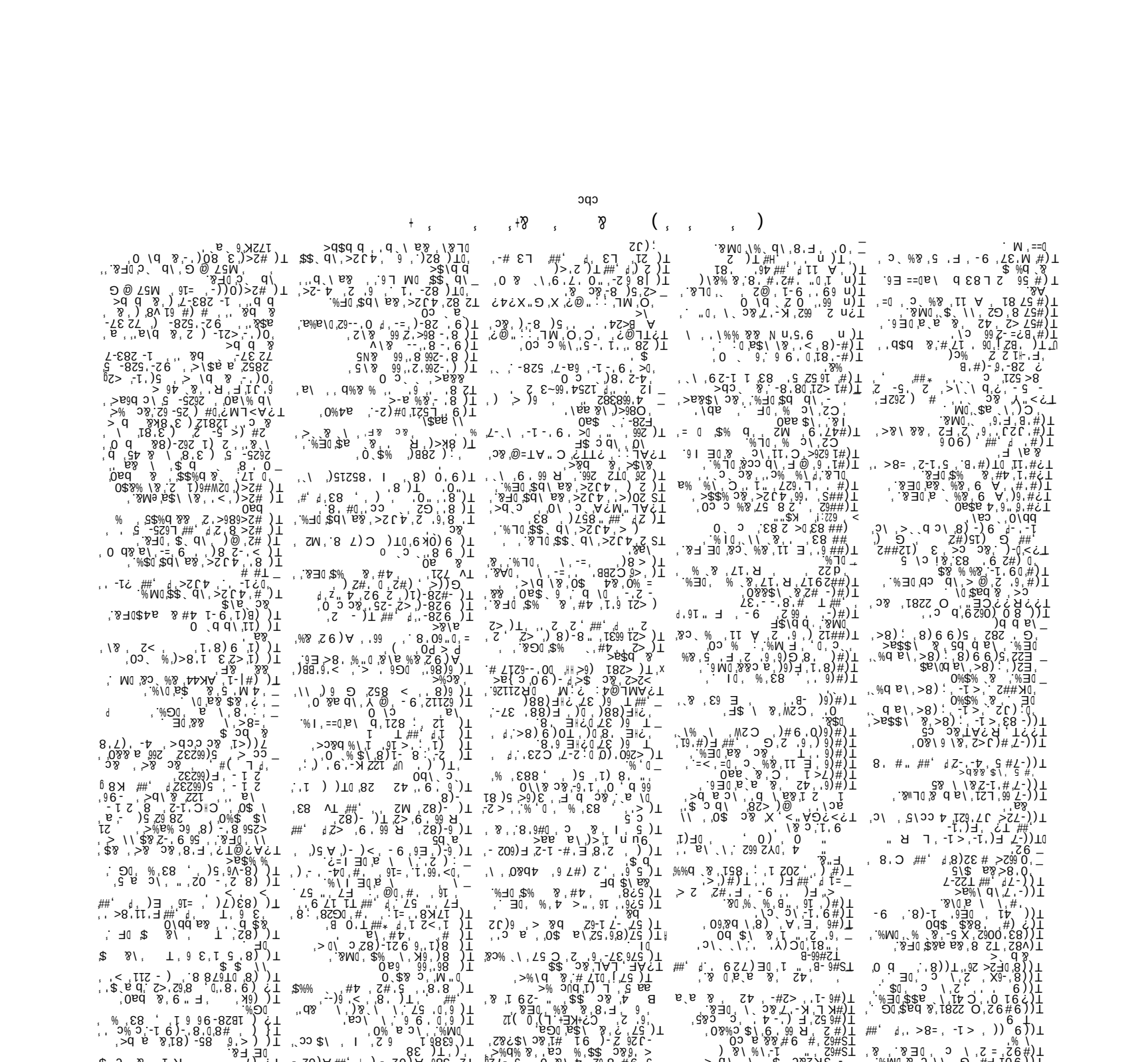
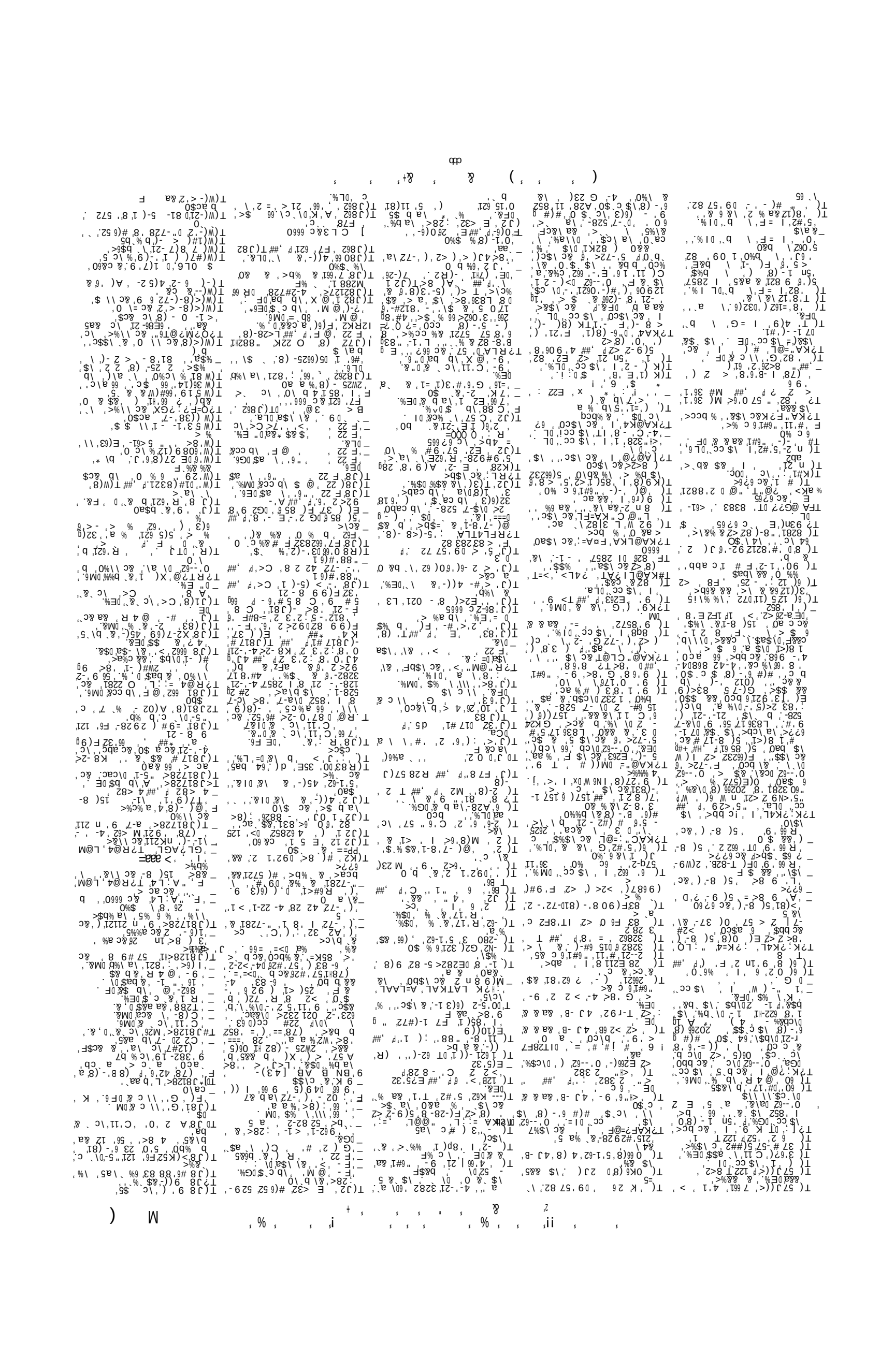
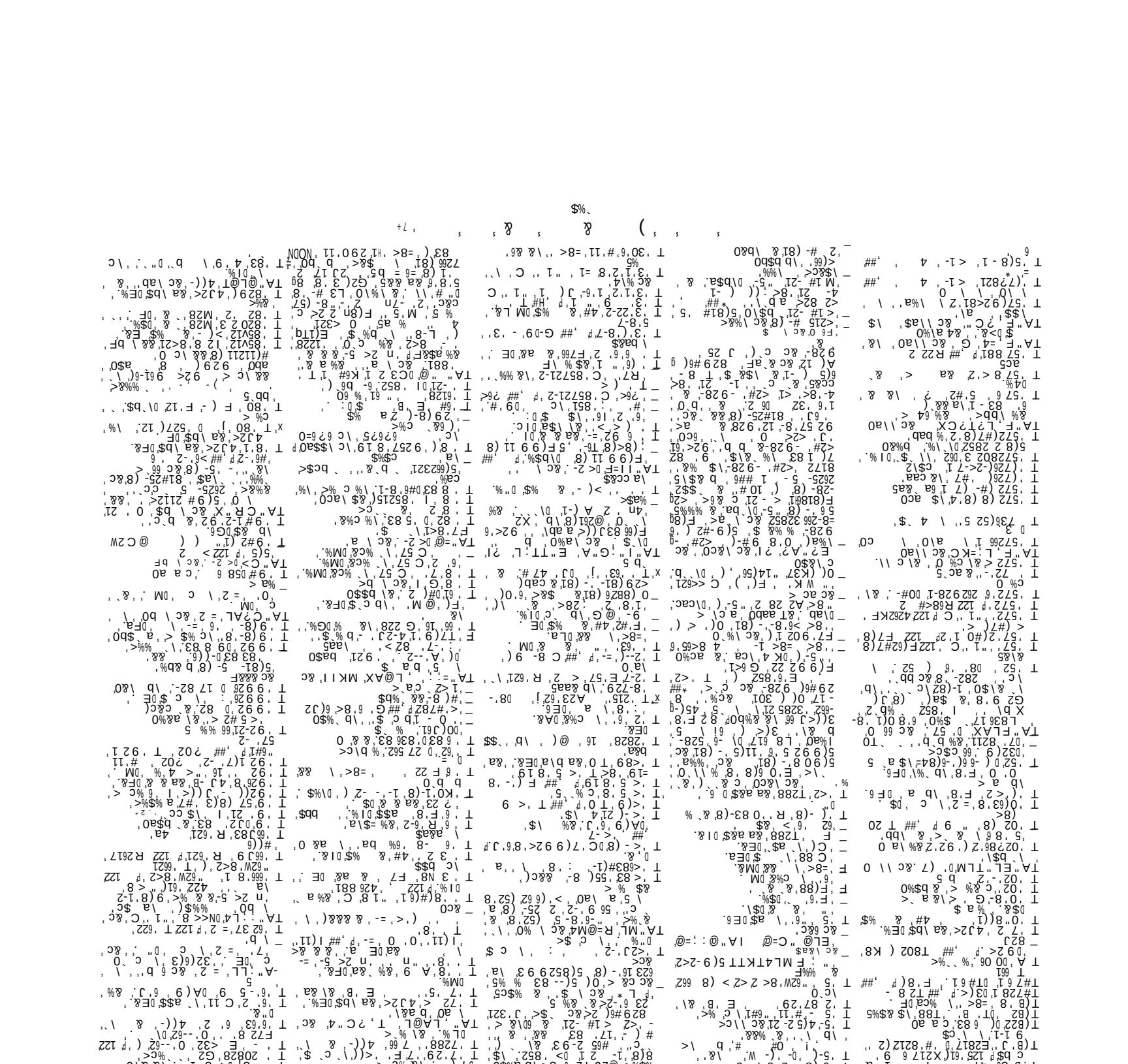
Tisted (East), Hants.: *see* East Tisted.
Tistedal, riv., Nor **11**-69c.

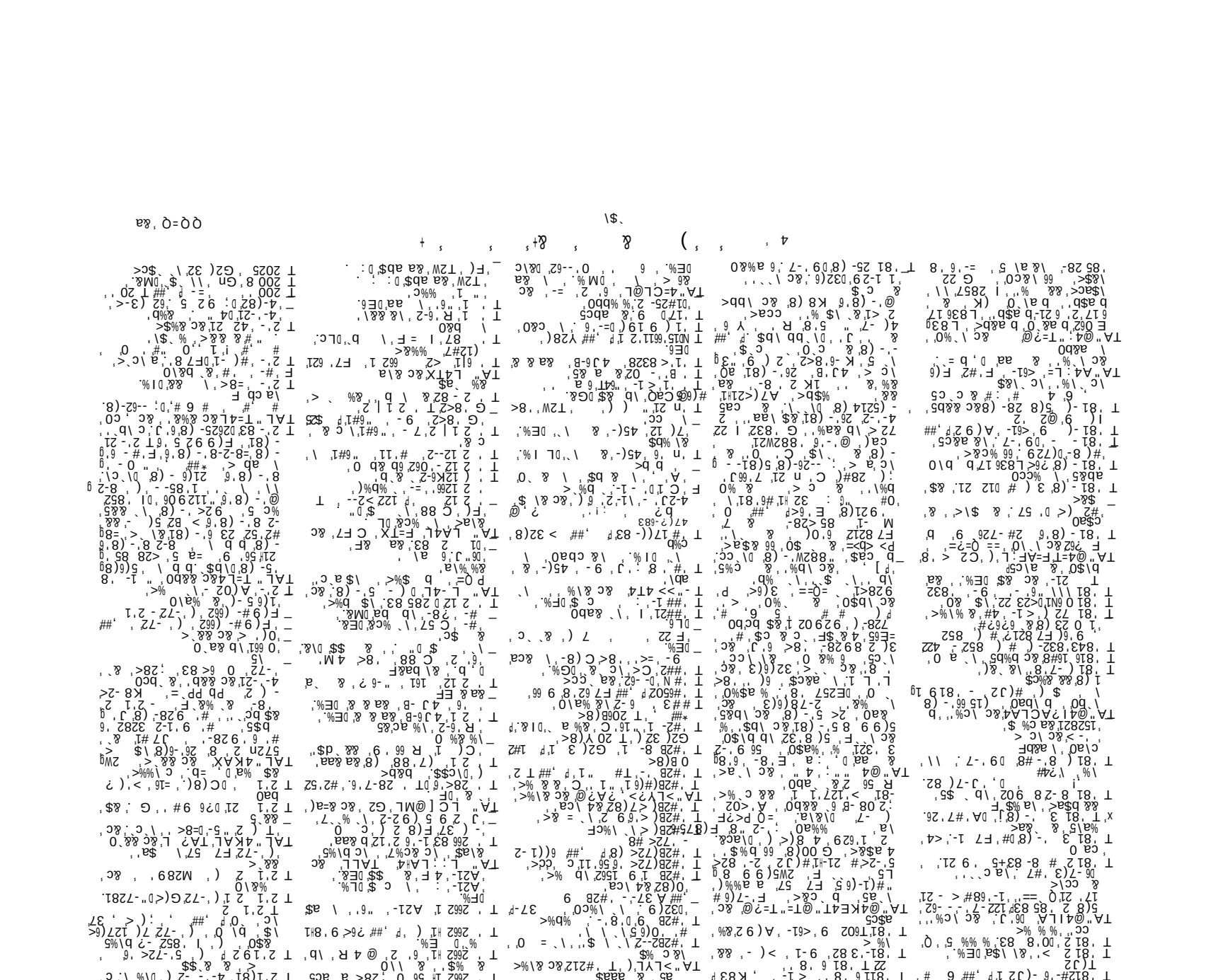












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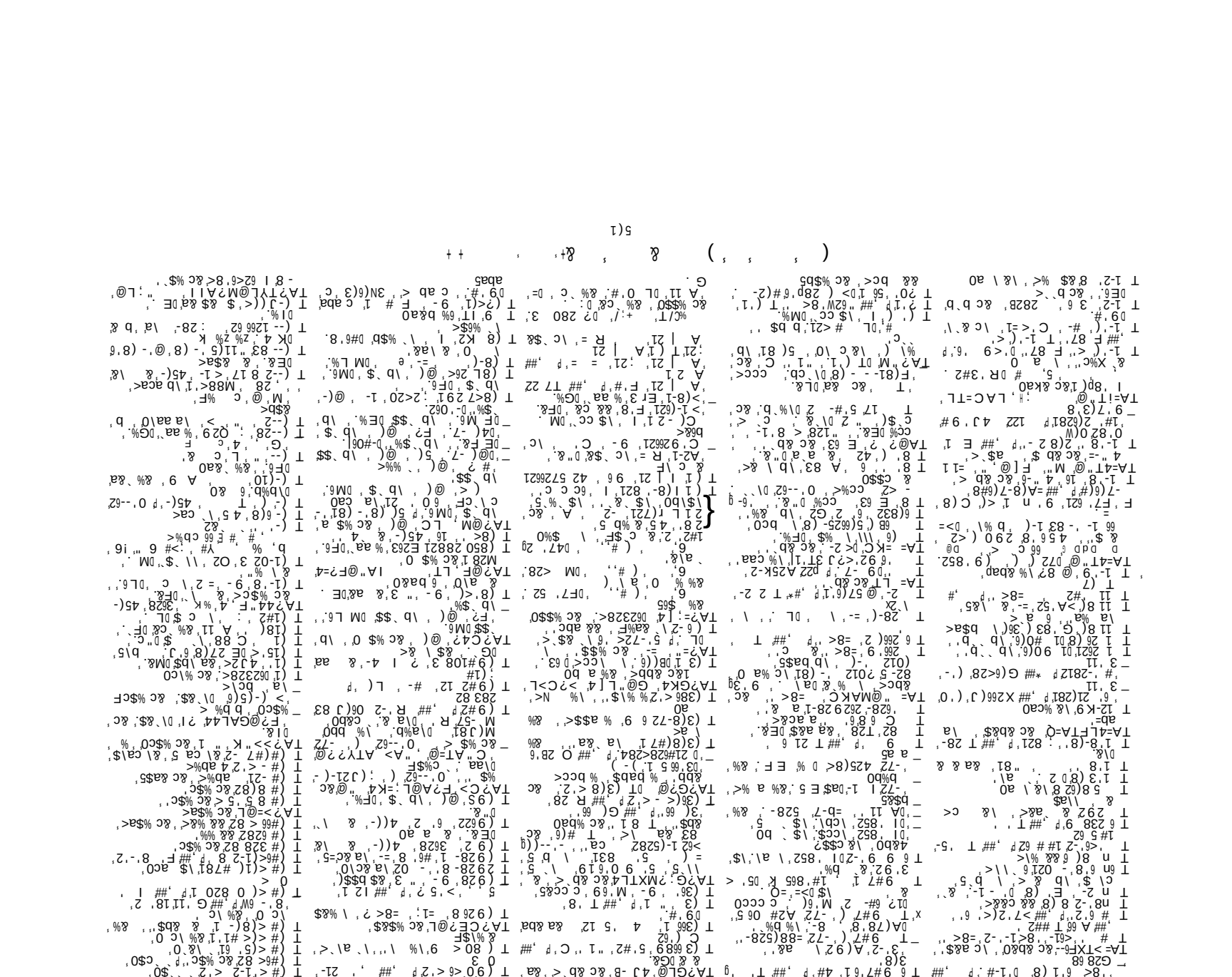

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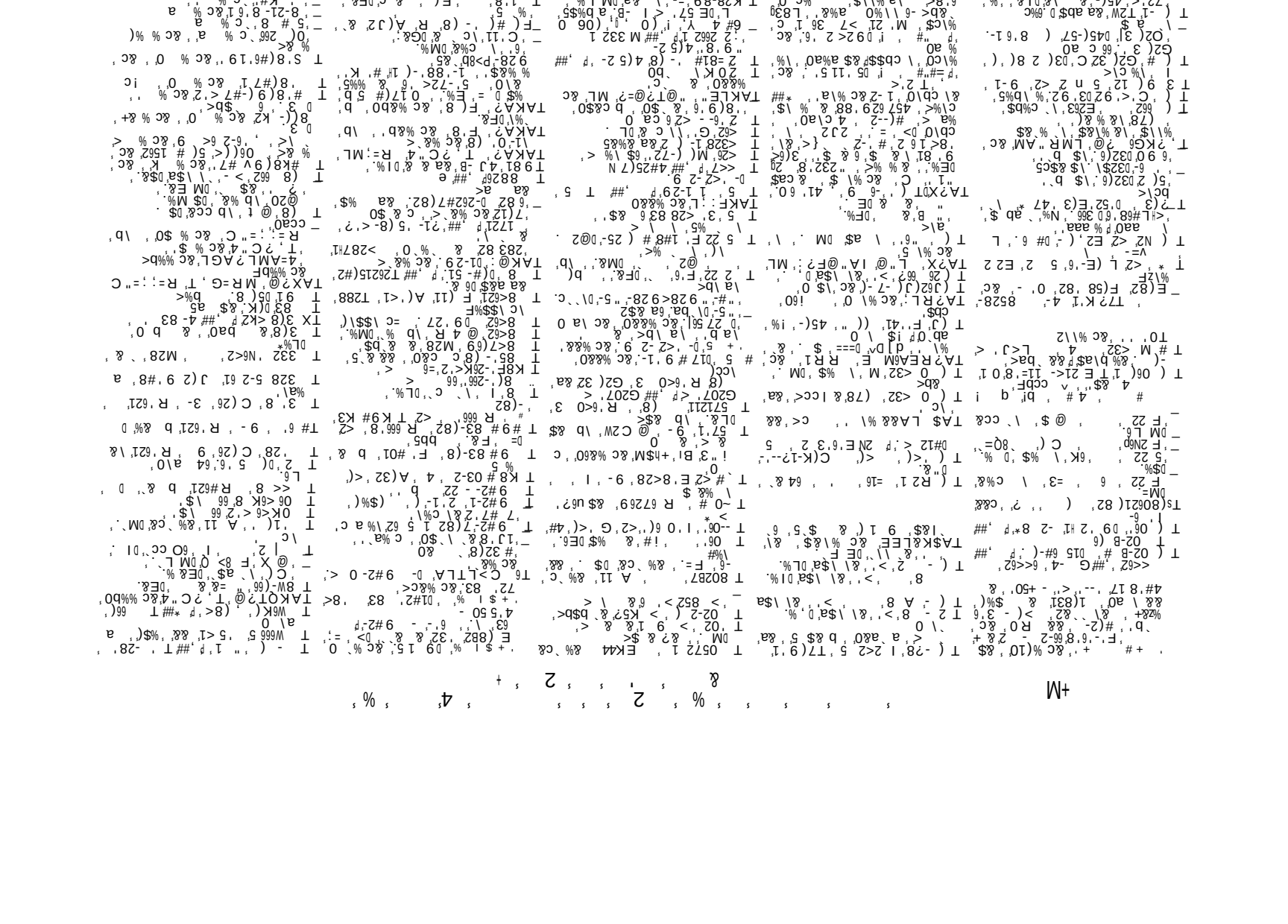

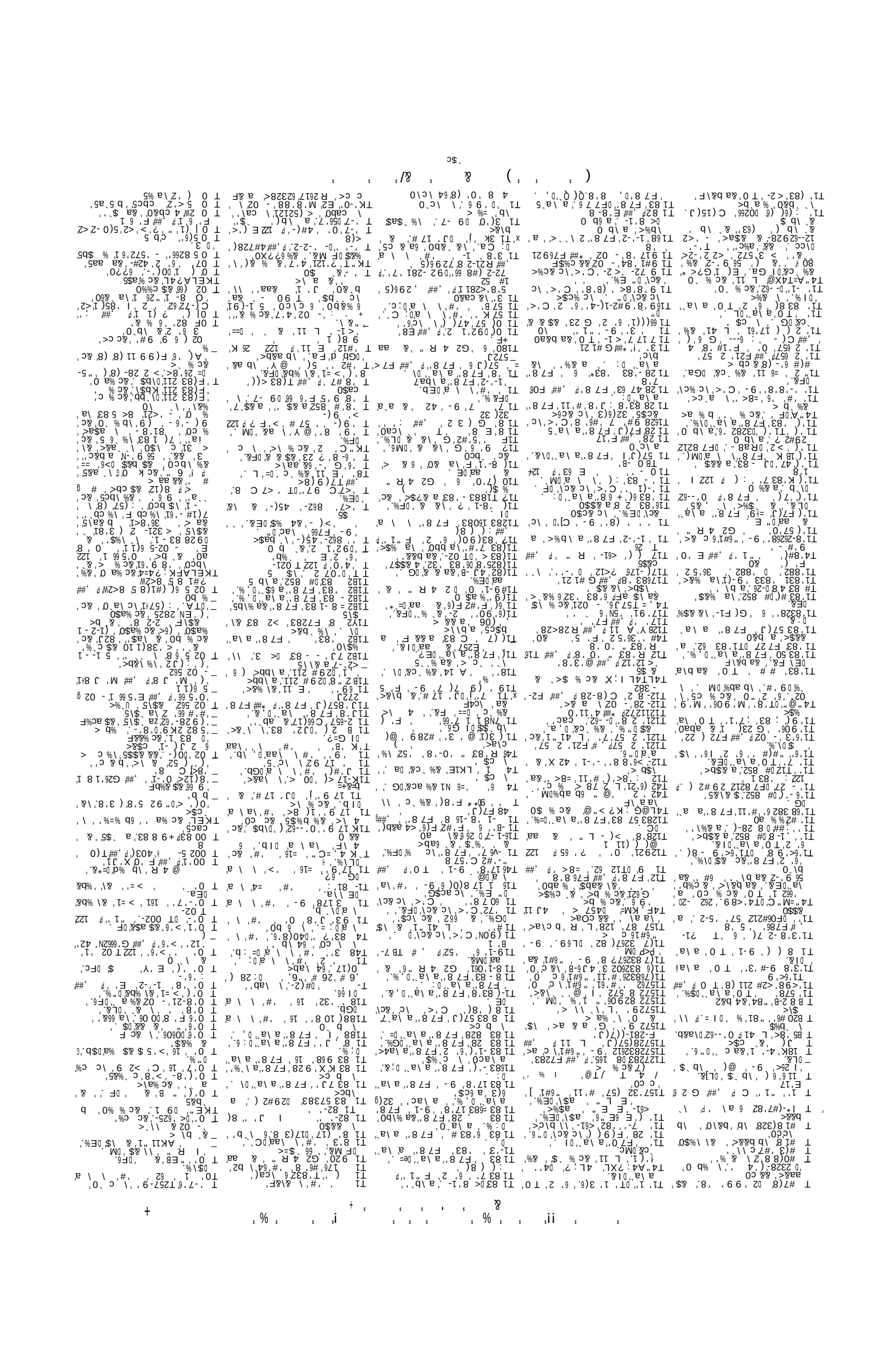

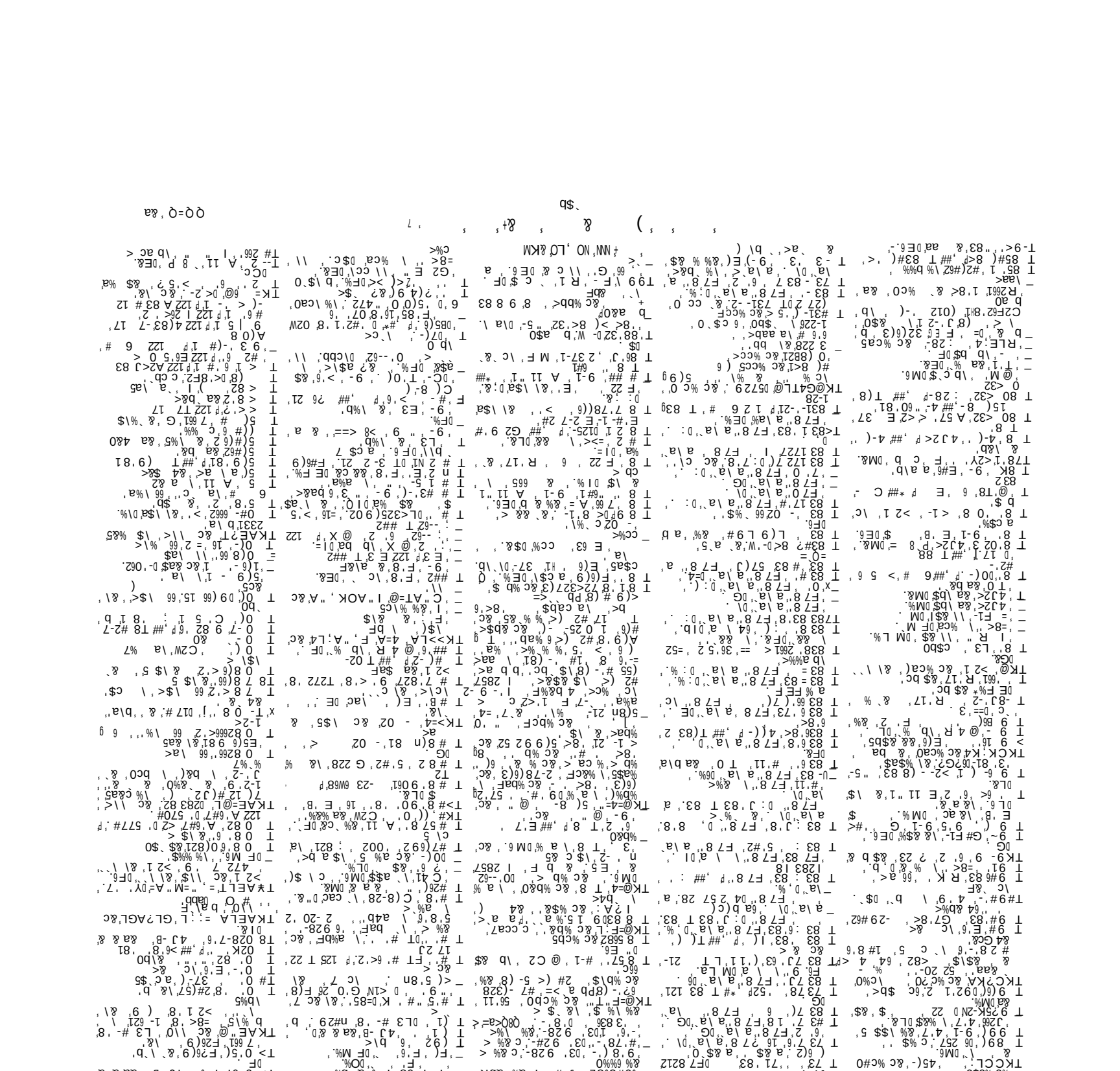

Turenne, F. de la Tour d'Auvergne, vicomte de: *see* Bouillon.
—, H. de la Tour d'Auvergne, vicomte de (1555–1623): *see* Bouillon.
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— carpet **5**-393b foll.; **5**-392 (Pl. I.).
— City, Pa. **21**-106 (C3).
— Company: *see* Levant company.
— Creek, La. **17**-54 (B3).
— Creek, riv., Colo. **6**-722 (F3).
— Creek, riv., Ga. **11**-752 (A2).
— Creek, riv., Ia. **14**-732 (B-C3).
— Creek, riv., Ind. **14**-422 (E4).
— Creek, riv., Ind. **14**-422 (F2).
— Creek, riv., Ind. **14**-422 (G1).
— Creek, riv., Kan. **15**-654 (E2).
— Creek, riv., La. **17**-54 (C1).
— Creek, riv., Mo. **18**-608 (C2).
— Creek, riv., N.C. **19**-772 (D2).
— Creek, riv., Okla. **20**-58 (B1).
— Creek, riv., Okla. **20**-58 (C1).
— Creek, riv., Okla. **20**-58 (C-D1).
— Creek, riv., Okla. **20**-58 (F3).
— Creek, riv., S.C. **25**-500 (B3).
— Creek, riv., S.C. **25**-500 (C2).
Turkey-fat ore **4**-966c.
Turkey gall: *see* Gall-nut.
— oak **19**-933c; **10**-649d.
— oilstone **13**-652d.
— red (dye) **8**-749a; **12**-84a; oil (sulphated) **8**-748d.
— rhubarb **23**-273a.
— Ridge Creek, riv., S.Dak. **25**-506 (H4).
— River, Ia. **28**-740 (B6).
— vulture: *see* Turkey buzzard.
Turkhans (dynasty) **25**-143b.
Türkheim, Ger.: battle (1675) **8**-734b.
Turki (b. Said, sultan of Muscat) **19**-44b; **2**-270a.
— (Wahhabi ruler) **2**-268c.
TURKI (dict.) **27**-468a.
Turkis: *see* Turquoise.
Turkish bath **3**-517b; **14**-166c; **27**-801d.
— crescent (musical instrument): *see* Chinese Pavillon.
— Croatia **4**-282c.
— delight **7**-9a.
— divan **8**-325d.
— draughts **8**-550a.
— drum: *see* Bass drum.
— jingle: *see* Chinese Pavillon.
— knot **5**-393b.
— (Tatar) languages **27**-472d; **21**-428a; compared with Finno-Ugrian **10**-390c; dictionaries **8**-196b; in Europe **9**-919d.
— music **14**-655b.
— pepper **13**-896b.
— (Rhodian) pottery **5**-729c; **5**-736 (Pl. V.); **19**-17c.
— tobacco **26**-1038d.
— towelling **27**-109d; **28**-447d.
Turkmanchai, Treaty of (1828) **21**-189a; **21**-198b; **21**-201b; Erivan ceded to Russia **2**-566c.
Turkmani (dialect) **27**-473a.
Turko, hill, China **27**-470d.
Turkoman, dist., Russ. **25**-816d.
TURKOMAN (Turcomans), tribes **27**-468b; **2**-749b; **27**-469d; civilization among **27**-472c; Hospitallers' victory over (1281) **24**-15c; in Asia Minor **2**-759c; in Caucasia **5**-548b; in Khiva **15**-778a; in Merv **18**-175d; in Russian empire **23**-874b.
Turkoman horse **21**-191d.
TURKS (people) **27**-468c; **6**-272a; crusades against **7**-546a; **25**-66c; in Asia **2**-748c; **2**-755b, **12**-21b; in Balkan Penin. **3**-259a; in North Africa **1**-331c; rule in Armenia and Bulgaria **2**-566c, **4**-780c.
TURKS AND CAICOS ISLS., W.I. **27**-468b; **28**-544 (D2); **28**-545d; patent law **20**-907a.
Turk's cap cactus: *see* Melon-thistle.
— cap lily **16**-688a.
— head (knot) **15**-873b.
— Island, passage, W.I. **28**-544 (D2).
Turku, Russ.: *see* Abo.
Turkwell, dist., Ugan. **27**-557 (C2).
—, riv., E.Af. **27**-557 (C2); **23**-815d.
Turla, mt., Turk. **17**-217a.
—, riv., Russ.: *see* Dniester.
Turle, Henry Frederic **27**-474a.
—, **JAMES 27**-474a.
Turlee, N.S.W. **19**-538 (B3).
Türlin, Heinrich von dem: *see* Heinrich von dem Türlin.
Turlo, pass, Alps **26**-242 (D5); **1**-743d.
Turlock, Cal. **5**-8 (C3).
Turlough (Tordelbach) O'Brian **14**-767a; **26**-869a.
— (Tordelbach) O'Connor **14**-767b; **27**-351d.
Turlough, Ire. **5**-480c.
Turl Street, Oxford **20**-408d.
Turlupins (sect) **14**-592d.
Turma (dict.) **9**-724a.
Turmair, Johann: *see* Aventinus.
Turmall **27**-103c.
Turman, Ga. **11**-752 (B4).
Turmanin, Syr.: church **2**-390a.
Turmans Creek, riv., Ind. **14**-422 (B6).
Turmberg, hill, Ger. **11**-806c.
TURMERIC 27-474a; **8**-747a; **4**-251d; fluorescence **10**-576d.
Turms (myth.) **9**-856d.
Turmus Aya, Pal. **1**-434c.
Turn (stock exchange) **25**-931a.
Turnagain, cape, Austr.: *see* Keerweer.
—, cape, N.Z. **19**-624 (F4).
—, riv., Can. **4**-600 (D1).
Turn and Taxis, Maximilian, prince of: *see* Thurn.
Turnau, Aus. **3**-4 (D1); **22**-695c.
Turnback Creek, riv., Mo. **18**-608 (C4).
Turnberry, pt., Scot. **24**-412 (D4); **6**-572d.
Turnbull, Andrew **10**-544d.
—, Charles **20**-408c.
—, Robert James **5**-943d.
—, William **12**-81d; **15**-300a.
—, W. B. D. D. **1**-26a.
Turnbull's blue **22**-530b.
Turnbull Creek, riv., N.C. **19**-772 (D3).
Turnchapel, Dev. **21**-862 (map).
Turncoat **28**-524d.
Turneaure, F. E. **4**-548b.
Turnèbe, O. de **8**-511b.
TURNEBUS, ADRIANUS (Adrien Turnèbe) **27**-474b; **24**-284b.
Turneffe, isl., Br.Hond. **5**-678 (C2).
Turner, Alfred **24**-507c.
—, Anne **20**-384b.
—, Captain **11**-628b.
—, **CHARLES** (engraver) **27**-474b; **18**-353a.
—, Charles (general) **11**-88c; **25**-56c.
—, Charlotte: *see* Smith, Charlotte.
—, C. T. B. **7**-144c; **7**-446d; **7**-445b.
—, C. Y. **19**-460c.
—, Emma Tournour **19**-39a.
—, E. R. and F. (engineers, Ipswich) **10**-549b.
—, Francis (bp. of Ely) **19**-736d; **26**-617d.
Turner, George **5**-164c.
—, H. H. **21**-532b; **25**-785d.
—, H. N. **20**-306b.
—, **SIR JAMES 27**-474c; **5**-188d.
—, **JOSEPH MALLORD WILliam 27**-474d; **20**-477d; **20**-496d; "Crossing the Brook" **20**-476 (Pl. IV.); engravings after **16**-723c; French impressionists and **14**-344b; mezzotints **18**-353a; Royal Academy trust fund **1**-108d; Ruskin and **23**-859b.
—, **NAT 27**-479c.
—, Richard **14**-775a.
—, Samuel **3**-847d; **26**-923c.
—, **SHARON 27**-479d; **5**-743b.
—, Sidney **8**-377a.
—, Sir William (anatomist) **2**-667d; **7**-373d.
—, Thomas **5**-743b; jasper ware **5**-758 (Pl. X.).
—, **WILLIAM** (naturalist) **27**-479d; **4**-299d; **20**-300a.
—, William Aldren **21**-538b.
Turner, Ariz. **2**-544 (C4).
—, Ark. **2**-552 (D3).
—, Ind. **14**-422 (C5).
—, Kan. **15**-654 (H1).
—, Me. **17**-434 (B4).
—, Mich. **18**-372 (G5).
—, Oreg. **20**-242 (B-C3).
—, Wash. **28**-354 (G-H3).
—, isl., Green. **12**-543 (G4).
—, lake, Me. **17**-434 (C2).
—, riv., Alsk. **1**-472 (K1).
— Co., Ga. **11**-752 (C4).
— Co., S.Dak. **25**-506 (H4).
Turner (coin) **25**-925b.
Turnerite **18**-692b.
Turner's, penin., S.L. **11**-204 (B5); **25**-54b.
Turnersburg, N.C. **19**-772 (B2).
Turners' Company **16**-811a.
Turners Falls, Mass. **17**-852 (B1); **6**-958b.
Turnershill, Sus. **9**-424 (IV. B4).
Turner's Junction, Ill. **28**-505c.
— Puddle, Dorset.: *see* Affpuddle.
— Station, Ky. **15**-740 (C2).
Turnersville, N.J. **19**-502 (B4).
Turner's yellow **16**-319a.
Turnerville, Ga. **11**-752 (C1).
Turney, Mo. **18**-608 (B2).
Turnford, Herts. **16**-942 (D2).
Turnham, Robert de, baron **8**-412b.
Turnham Green, London: battle (1642) **12**-404d.
TURNHOUT, Belg. **27**-480a; **3**-668 (E1); battle (1597) **13**-597b; battle (*c.* 1789) **3**-675a.
Turnices: *see* Button-quail.
Turning piece (carpentry) **5**-388b.
TURNIP 27-480b; agricultural statistics **1**-399d, **1**-401a, **1**-405b; cattle food **1**-408b; crude fibre **5**-606d; drought **1**-401b; cariy cultivation **1**-391d, **1**-392b; saw-fly **24**-257d; Scotland **24**-423c.
— fly (turnip flea) **8**-897a; **27**-480c.
— saw-fly **24**-257d (fig.).
Turnip Townshend: *see* Townshend, Charles Townshend, 2nd viscount.
Turnix **22**-709a; **24**-746c; **3**-977c (table).
— sylvatica: *see* Andalusian hemipode.
Turnour, George **5**-783b; *Mahavamsa* translated **17**-395b.
Turnpike, Pa. **21**-106 (I6).
TURNPIKE (highway) **27**-480d; **13**-458a.
— Acts (1750) **24**-424d.
Turnskin: *see* Turncoat.
Turnsole: *see* Heliotropium.
Turnspit (dog) **8**-378d.
Turnstile **27**-480d.
TURNSTONE 27-480d; **13**-86b.
TURNU MAGURELE, Rum. **27**-481b; **23**-826 (B3).
Turnus (Rutulian king) **23**-946a; **1**-257b.
TURNU SEVERIN, Rum. **27**-481b; **23**-826 (A2).
Turnwrest plough **21**-851b (fig.).
Turó, isl., Den. **8**-24 (C3); **8**-23d.
Turócz, Hung. **3**-4 (F2).
—, co., Hung. **3**-4 (F2).
Turon, Kan. **15**-654 (D3).
Turones, riv., Port. and Sp. **25**-530 (B2); **1**-714a.
Turones, tribe **27**-102d.
Turong, riv., Bur.: *see* Taron.

Turonian group **7**-416a (table); **7**-418a; **11**-670b (table); fossils **5**-806b.
Turpanat-tagh, mt., Turkest. **6**-168 (D1); **26**-910a.
TURPENTINE **27**-481b; **21**-623c; **20**-458a; illuminating gas from **7**-809c.
—, oil of **27**-481c.
— tree **2**-948d.
Turpeth mineral **18**-158a.
Turpie Resolution (1894) **13**-92d.
TURPIN (archbp.) **27**-482a; **11**-119a.
—, Dick: *see* Turpin, Richard.
—, **FRANCOIS HENRI** **27**-482b.
—, **RICHARD** **27**-482c; **10**-353c.
Turpin Green, Lancs. **16**-139 (C2).
Turquino, mt., Cu. **7**-595 (E3); **7**-595d.
Turquoise, hill, N.Mex. **27**-483b.
—, mt., Ariz. **27**-483b.
TURQUOISE **27**-482c.
— blue **8**-746d.
Türr, Etienne **19**-189c.
Turra, quarries, Egy. **9**-42b.
Turrada (boat) **14**-740d.
Turrawan, N.S.W. **19**-538 (E2).
Turreau (de Garambourville), Louis Marie, baron **11**-199b; **11**-164d.
Turrecremata, Johannes de: *see* Torquemada, Juan de.
Turrell, Ark. **2**-552 (E2).
Turres Veteres, Port.: *see* Torres Vedras.
Turret, Colo. **6**-722 (E3).
—, lake, Scot. **24**-418 (D2).
—, mt., Ariz. **2**-544 (C2).
—, riv., Scot. **24**-418 (D2); **8**-798b.
TURRET (arch.) **27**-483b.
— (fortification) **10**-703d.
— (naval) **24**-893c; **24**-894d; **20**-230d.
— furnace **7**-104a.
TURRETIN, BENOIT **27**-483b.
—, **FRANCOIS** **27**-483c.
—, **JEAN ALPHONSE** **27**-483c; **20**-358a.
Turret lathe **27**-24c.
— ship **24**-893b; **20**-230d.
Turricula **11**-516d.
Turriers, Fr. **10**-778 (H5).
TURRIFF, Scot. **27**-483d; **24**-412 (F2); **1**-50b.
Turrilepas **26**-906a.
Turrilites **5**-693d; **5**-686d.
Turris (liturgical vessel) **9**-876b.
— (zool.) **14**-151c.
Turris Hannibalis, N.Af. **17**-396a.
— **LIBISONIS**, Sard. **27**-483d; **15**-26 (B4): *see also* Porto Torres.
— Severi, Rum.: *see* Turnu Severin.
— Stratonis, Pal.: *see* Caesarea Palaestina.
Turrita, Mino da **8**-688c.
Turritella **11**-516a; **20**-82b; **15**-570a.
— limestone **18**-599d.
Turritellidae **11**-516a.
Turritopsis **14**-151c.
Tursa, riv., India **14**-376 (N6); **3**-846d; **15**-132a.
Turshiz, Pers. **21**-188 (C2); **27**-484a.
TURSHIZ, dist., Pers. **27**-484a.
Tursi, It. **15**-4 (F4); **8**-428b.
Tursiops **5**-774c.
Türst, Conrad **26**-263c.
Turstin (archbp.): *see* Thurstan.
Turtipur, India **14**-376 (K6).
Turtle, hill, N.Y. **8**-833d.
—, isl., Fiji: *see* Vatoa.
—, isls., And.Is. **1**-955c.
—, isls., S.L. **11**-204 (B5); **25**-54b.
—, lake, Can. **24**-225 (A2).
—, lake, N.Dak. **19**-780 (C-D2).
—, lake, Wis. **28**-740 (D2).
—, mts., N.Dak. **19**-780 (D1); **19**-780a.
—, riv., Ga. **11**-752 (E4).
—, riv., N.Dak. **19**-780 (G2-1).
Turtle **27**-66c; **7**-418c; **10**-502d (fig.); Arguin fishery **2**-482d; brain **4**-401c (fig.); Brazil **4**-444b; ear **23**-160c; edible: *see* Green turtle; paddles **23**-157a.
— allars **5**-678a.
— back (dict.) **24**-879d.
Turtle Creek, Pa. **21**-106 (E7).
— Creek, riv., N.Dak. **19**-780 (D2).
— Creek, riv., Pa. **21**-106 (F7).
— Creek, riv., S.Dak. **25**-506 (G3).
— Creek, riv., Wis. **28**-740 (A3).
Turtle Creek, riv., Wis. **28**-740 (C2).
— Creek, riv., Wis. **28**-740 (E6).
Turtle-dove **8**-452c; **15**-758b.
Turtle Gut, inlet, N.J. **19**-502 (C5).
— Lake, N.Dak. **19**-780 (D2).
— Lake, Wis. **28**-740 (A3).
— Lake, riv., Can. **24**-225 (A2).
— Mountain, Indian reservation, N.Dak. **19**-780 (E1).
Turtle-oil **27**-70b.
Turtlepoint, Pa. **21**-106 (F2).
Turtle River, Minn. **18**-550 (C3).
— River, lake, Minn. **18**-550 (C3).
Turtle-shell **27**-71c.
Turtmann, Switz. **26**-242 (D4).
— val., Switz. **26**-242 (D4).
Turtola, Russ. **23**-872 (B-C2).
Turton, Thomas **26**-851b.
TURTON, Lancs. **27**-484a; **16**-139 (D2).
—, S.Dak. **25**-506 (G-H2).
—, moor, Lancs. **16**-139 (D2).
Turtonia **16**-123b.
Turton *v.* Turton (1889) **27**-132a.
Turtoopooroo, mt., N.S.W. **19**-538 (B2).
Turtur: *see* Turtle-dove.
— chinensis: *see* Chinese turtle dove.
— risorius: *see* Collared dove.
Turu, riv., Russ.As. **25**-10 (F2).
Turuaco, riv., Venez. **27**-989 (B3).
Turugurt, pass, Turkest. **6**-168 (B1); **26**-909d.
Turukha, tribe: *see* Yue-Chi.
Turukhan, riv., Russ.As. **28**-914c.
Turukhansk, Russ.As. **25**-10 (D2); **28**-915a; **28**-914d; graphite beds **25**-12b.
Tu-rumbu (dialect) **3**-359a.
Turumti **10**-139d.
Turungumbe, Fr.W.Af. **11**-204 (D2).
Turunt, riv., Russ.: *see* Dvina, Southern.
Turushka, tribe: *see* Yue-Chi.
Turvey, Beds. **9**-424 (IV, A2).
Turville, Bucks. **9**-420 (III, F3).
Turweston, Bucks. **9**-420 (III, E2).
Tury-assu, Braz. **4**-440 (H2); **17**-668b.
—, bay, Braz. **4**-440 (H2); **17**-668a.
—, riv., Braz. **4**-440 (G2); **17**-668b.
Tus, Pers. **10**-397a.
Tusalakchi (dict.) **18**-712b.
Tusca, riv., Alg.: *see* Kebir.
Tuscaloosa (Indian chief) **27**-484c.
TUSCALOOSA, Ala. **27**-484a; **1**-460 (B2); **28**-803d.
— Co., Ala. **1**-460 (B2).
Tuscaloosa group **27**-628b; **18**-599d; **7**-417a (table).
Tuscan, Cal. **5**-8 (B1).
Tuscan (dialect) **14**-895b.
TUSCANA, It. **27**-484c; **15**-26 (C3); **27**-79b.
Tuscan Apennines, mts., It. **15**-4 (C2); **2**-161c.
Tuscan order (arch.) **20**-182c; **20**-176a.
— plait **25**-1004d.
— school of poetry **14**-900a.
TUSCANY, dist., It. **27**-484c; **15**-4 (C3); **6**-788c; geology **15**-5b; mountains **15**-3d; straw plaiting **25**-1004d; trees **10**-649d; wines **28**-727d; working classes **15**-13b.
—: *History* **27**-485a; **10**-531b; **15**-38 (map); condottieri expelled from (1358–1359) **10**-534a; Cosimo II. **18**-39a; Ferdinand I. **18**-38c; government of (1848 and 1849) **15**-52d; Guelph League **15**-34c; Habsburg rule **12**-792a; plague **18**-39b; regency **18**-39b.
Tuscarawas, O. **20**-26 (G-H4).
—, riv., O. **19**-532b.
— Co., O. **20**-26 (G-H4).
Tuscarora, Nev. **5**-8 (E1).
—, N.Y. **19**-596 (C3).
—, Pa. **21**-106 (K-L4).
—, deep, Pac.O. **20**-435b; **15**-157a; seismic activity **15**-159b.
—, mt., Pa. **21**-106 (F6-H5).
—, mts., Nev. **5**-8 (E1).
—, reservation, N.Y. **19**-599a.
TUSCARORA, tribe **27**-486c; **14**-465b.
— Creek, riv., Pa. **21**-106 (G5).
— Creek, riv., N.Y. **19**-596 (C3).
Tuscarora quartzite **27**-630d.
— rice: *see* Indian rice.
— war (1713–1714) **14**-477b.
Tuscia et Umbria, prov., It. **23**-649 (D2).
Tuscola, Ill. **14**-304 (D4).
—, Mich. **18**-372 (G6).
— Co., Mich. **18**-372 (G6).
Tuscolana, Via, road, It. **15**-4 (F1-2).
Tusculan, observatory, Den. **23**-452c.
Tusculan Disputations **6**-357a.
Tusculum, counts of **15**-29a; **23**-668d; **23**-672d.
Tusculum, Ga. **11**-752 (E3).
TUSCULUM, It. **27**-486c; **15**-26 (B-C6); **3**-515c; Castor cult **23**-579d; geology **16**-269a; siege (1167) **23**-672a. *See also* Frascati.
Tuscum, sea, It. **23**-648 (D2-3). *see also* Tyrrhenian Sea.
Tuscumbia, Ala. **1**-460 (B1).
—, Mo. **18**-608 (D3).
Tuscus, Vicus, Rome **23**-594c; **23**-592 (plan).
Tush, tribe **11**-760b; **5**-546c; language **11**-761a.
Tu-shan, China **6**-168 (H4).
— hu, lake, China **6**-168 (K3); **24**-803c.
Tushetu (clan) **15**-642d.
Tushielaw, tower, Scot. **9**-863d.
— Inn, Scot. **24**-412 (E4).
Tu-shi-kow, China **6**-168 (K1).
Tushinisam, pass, China **17**-553 (B3).
Tushino, Russ. **7**-984c.
Tushins, tribe: *see* Tush.
Tushiyetu (clan): *see* Tushetu.
Tushkahomma, Okla. **20**-58 (F3).
Tushmal (title) **21**-194c.
Tushratta (Mitanni ruler) **18**-182d.
T'u Shu Chi Ch'êng **6**-230c.
Tusi (astronomer): *see* Nasir uddin.
Tusib (myth.) **13**-806c.
Tusina, Monten. **18**-767 (B2).
Tusirkhan, Pers. **21**-188 (A2); **17**-471b.
Tusk: of elephant **9**-260b; methods of cutting **15**-94b.
Tuskar, rock, Ire. **14**-744 (E4); **28**-565d.
TUSKEGEE, Ala. **27**-487b; **1**-460 (D3); **25**-212a.
Tusker, rock, Wales **9**-428 (V, D5).
Tusker (boar) **21**-600d.
Tusket, Can. **19**-831 (B3).
—, isl., Can. **19**-831 (A3).
Tuski, tribe: *see* Chukchi.
Tusk shell **24**-833b.
— tenon (carpentry) **5**-388a.
Tusnád, Hung. **3**-4 (I3); **27**-211a.
Tussaha Creek, riv., Ga. **11**-752 (B2).
TUSSAUD, MARIE **27**-487d.
TUSSER, THOMAS **27**-488a; **8**-203a.
Tussey, mt., Pa. **21**-106 (F5).
Tussid, mt., Sah. **23**-1004c.
Tussilago: *see* Coltsfoot.
Tüs-Sö, lake, Den. **8**-24 (D3); **28**-961d.
Tussock grass **12**-376d; **10**-152c; **19**-624d.
— moth **16**-472d.
Tussur (Tussore) silk **25**-101a; **10**-310c; **10**-312b; bleaching **4**-55d; dyeing **25**-103d; Hyderabad **14**-32a.
Tuster, Nor. **19**-804 (C1).
Tustin, Mich. **18**-372 (E5).
Tusun, Pasha **9**-110c; **9**-112d; **9**-110a.
Tutau, Bor. **24**-207d.
TUTBURY, Staffs. **27**-488b; **9**-416 (II, D4); **8**-72c; bull-running **3**-575c; priory **10**-286b.
—, dist., Staffs. **27**-828a.
Tutchonekut'qin, tribe **14**-465b.
Tutela, Fr.: *see* Tulle.
—, Sp.: *see* Tudela.
— (law): *see* Tutor.
Tutelary deity **10**-295c; **23**-983c; forms assumed **8**-6b, **27**-237a, **24**-679b.
Tutelos, tribe **26**-93b.
Tutenganahan (myth.) **19**-137b.
Tutenkhamûn (Egyptian king) **9**-84d.
Tuti, isl., Sud. **15**-773c.
TUTICORIN, India **27**-488c; **14**-382 (H15).
Tutiorists **16**-679d.
Tutomotulus (king) **24**-104b.
Tutong, riv., Bor. **4**-681c.
Tutor, Julius **6**-403a.
TUTOR **27**-488d; Roman law **23**-540d, **28**-782c.
Tutores dativi **14**-514c.
— legitimi **14**-514c.
Tutores testamentarii **14**-514c.
Tutors-at-law **14**-515d.
Tutors-dative **14**-515d.
Tutors-nominate **14**-515d.
Tutova, dept., Rum. **23**-826 (C1).
Tutoya, Braz. **4**-440 (H2).
Tutsan **24**-19c.
Tutt, J. W. **16**-469b.
Tuttle, Colo. **6**-722 (H2).
—, Okla. **20**-58 (D2).
Tuttle's comet **6**-763b.
TUTTLINGEN, Ger. **27**-488d; **11**-808 (B5); battle (1643) **26**-859c.
Tutton, A. E. H. **6**-72d; **12**-235b.
Tuttukkudi, India: *see* Tuticorin.
Tutu, isl., Pac.O. **10**-335 (B1).
Tutu (bot.) **19**-626c.
Tutuila, isl., Pac.O. **20**-436 (O8); **24**-115b.
Tutukaka, harb., N.Z. **19**-624 (E1).
Tutûl Balâtâ, Pal. **15**-121b.
Tutul Xiu **18**-331b.
Tutum: *see* Nicotiania rustica.
Tutupacu, mt., Peru. **21**-264 (D5); **18**-813d.
Tutush (Seljuk ruler) **24**-609a; **24**-610a.
Tutwiler, Miss. **18**-600 (B1).
Tuvana i tholo, isl., Pac.O. **20**-436 (G-H7).
Tuvu, Fiji **10**-335 (A2).
—, riv., Fiji **10**-335 (A2).
Tuvutha, isl., Fiji **10**-335 (C1).
Tuwek, mt., Arab. **2**-264 (E3); **19**-251a.
Tuwem, Arab. **2**-264 (E3); **19**-351c.
TUXEDO, N.Y. **27**-489a.
—, lake, N.Y. **19**-596 (B4); **27**-489a.
— Park, N.Y. **19**-596 (B4).
Tuxen, Laurits **20**-515d.
Tuxen, cape, Antarc. **21**-965d.
Tuxergebirge, mt., Alps: *see* Reckner.
Tuxerjoch, pass, Alps **1**-746c.
Tuxford, Notts. **19**-828a.
Tuxpan, Mex. **18**-318 (F3); **27**-1015b.
—, riv., Mex. **27**-1015b.
Tuxtepec, Mex. **18**-318 (F-G4).
Tuxtla, mt., Mex. **18**-318 (G4); **18**-318a.
— Gutierrez, Mex. **18**-318(G4); **6**-117d.
Tuy, P.Is. **3**-240d.
TUY, Sp. **27**-489a; **25**-530 (A1).
—, riv., Venez. **27**-989 (B1); **27**-988c.
Tuyabamba, Peru **21**-264 (B3); **16**-543a.
Tuyber, glacier, Cauc. **5**-552b.
Tuyen-Kwang, Fr.I.C. **14**-498 (D1); **14**-490c; siege (1885) **27**-7a.
Tuyere: *see* Blast pipe.
Tuyford, Dev.: *see* Tiverton.
Tu-yun Fu, China **6**-168 (H4).
Tuz (dict.) **8**-392b.
Tuzer, Tun. **27**-396d.
Tuz Geul, lake, Turk.As. **2**-760 (E3); **2**-758b; **17**-151b.
— kaneh, lake, Russ.As. **24**-112b; **26**-304b.
— kul, lake, C.Asia: *see* Issyk-kul.
Tuzla, Cyprus: *see* Larnaca.
—, Rum. **23**-826 (D3).
—, Russ.: *see* Perekop.
—, dist., Bosnia **4**-282c.
—, riv., Asia M. **27**-314d.
—, spring, Turk.As. **2**-758c.
— Su, riv., Turk.As. **9**-894d.
Tuzlov, riv., **23**-874 (I. G3).
Tuzora, Russ. **23**-874 (I. B3).
Tuzu, riv., Bur. **4**-840 (Q7).
Tuzun (Amir al Omara) **5**-52a; **9**-95b.
Tvashtri (myth.) **19**-139b; **19**-142d.
Tvedestrand, Nor. **19**-804 (C3); **26**-110b.
TVER, Russ. **27**-489d; **23**-872 (E5); **27**-489c; **15**-88a.
TVER, govt., Russ. **27**-489b; **23**-872 (D-E4); **7**-983c.
Tveraadalskirken, mt., Nor. **19**-804 (B2).
Tvertsa, riv., Russ. **23**-872 (E4); **27**-489c.
Tvet, Nor. **19**-804 (C3).
Tvrtko (of Bosnia): *see* Stephen I.
Twachtman, John Henry **12**-553c.
Twaddell's hydrometer **14**-165c.
TWAIN, MARK **27**-490a; **1**-841b.
Twaite shad **24**-757d; **2**-30a.
Twangiro, Ger.E.Af. **11**-771 (C3).
Twann, Switz. **26**-242 (C2).
Twardowski, Samuel **21**-925c.
Twaton, Wyo. **28**-874 (F1).
Twatutia, settlement, Jap. **10**-670b.
Twa-twa **12**-678a.
Tway blade **22**-4c; **20**-172c.
Tweed, John **24**-507a.
—, William Marcy **26**-391d; **27**-720b; **19**-623c; Nast's caricatures **5**-335a.
Tweed, Can. **20**-114 (E1).
—, heads, Queens. **2**-960 (I5).
—, isl., Nfd. **19**-479 (A2).
—, riv., N.S.W. **19**-538 (G1).
TWEED, riv., Scot. **27**-490d; **24**-418 (F3); **24**-412 (F4); **4**-584 (B2); **9**-472d; in Northumberland **19**-790b.
—, vineries, Scot. **11**-393b.
TWEEDDALE, MARQUESSES of **27**-491a.
Tweeddale, co., Scot.: *see* Peeblesshire.
Tweedhopefoot, Scot. **21**-39c.
Tweedmouth, Edward Majoribanks, 2nd baron **2**-770a; **28**-668d.
Tweedmouth, Northumb. **9**-412 (I. E1); **3**-817a.
Tweedmouth Committee (1895) **22**-190b.
Tweed Ring (N.Y.) **19**-623c; **26**-971a; Nast's cartoons **19**-251d.
Tweedshaws, Scot. **24**-412 (E4); **21**-39c.
Tweedside, val., Scot. **23**-790a.
Tweedsmuir, Scot. **21**-39c.
Tweed's Wall, Scot. **27**-490d.
Tweefontein, Cape Col.: battle (1901) **27**-207d.
TWEEZERS **27**-491c.
Twelfth night: *see* Epiphany.
— Pioneers (reg.) **15**-639a.
Twelve Apostles, cromlech, Scot. **25**-964c.
— Apostles, hills, Cape Col. **26**-336d.
— Apostles, isls., Ind.O. **7**-520c.
— Apostles of Ireland, **14**-762b.
— Bens, mts., Ire.: *see* Twelve Pins.
— Divine Judges (court of appeal) **23**-522c.
Twelve, Gospel of the **2**-180c.
Twelve Heads, council, Delhi: *see* Barah Topi.
— line game: *see* Duodecim scripta.
— Mile, Ind. **14**-422 (E3).
Twelvemile, Mo. **18**-608 (F4).
Twelve Mile, lake, Can. **24**-225 (A3).
— Mile Creek, riv., Ia. **14**-732 (C3).
Twelvemile Creek, riv., Mo. **18**-608 (F4).
Twelve Mile Creek, riv., N.Y. **19**-596 (B2).
— Mile Creek, riv., Oreg. **20**-242 (F4).
— Mile Creek, riv., Oreg. **20**-242 (G5).
— Mile Creek, riv., S.C. **25**-500 (B2).
— Peers (of Charlemagne) **23**-464d.
— Pins, mt., Ire. **14**-744 (B3) **11**-431c; geology **11**-432a.
— spotted asparagus beetle: *see under* Asparagus beetle.
— **TABLES** (Rom. law) **27**-491c; **23**-537c; **23**-621a; language **16**-251d.
— wired bird of paradise **3**-979c.
Tweng, Marmaduke, 1st baron **15**-728b.
Twente, dist., Holl. **13**-588 (D2); **13**-592c.
Twenty Club, Brussels: *see* Cercle des Vingt.
— five (game): *see* Spoil-Five.
— Four articles, Treaty of the (1839) **16**-460d.
TWENTY-FOUR PARGANAS, The, dist., India **27**-491d; **14**-382 (N9-8); **14**-408b.
Twentymile, riv., Me. **17**-434 (B4).
Twenty Mile Creek, riv., Wash. **28**-354 (E1).
— Mile Creek, riv., Wyo. **28**-874 (H3-2).
— Mile Stream, riv., Vt. **19**-490 (B5).
Twenty-seven Mile Bluff, Ala. **18**-636b.
Twenty-six Mile Creek, riv., S.C. **25**-500 (B2).
Twerton, Som. **9**-430 (VI. H1); **3**-512a.
Twesten, August Detlev Christian **16**-913b.
—, Karl **17**-604b.
Twi (lang.): *see* Tshi.
Twice-born (caste) **4**-383b.

Twice-Flowering Plum-Trees, The (Chinese novel) **19**-838b.
Twici, William **13**-947d.
Twickenham, Ala. : *see* Huntsville.
TWICKENHAM, Mdx. **27**-491d ; **16**-942 (C3) ; **11**-264b ; flower growing **11**-265d.
Twig Creek, riv., Ind. **14**-422 (E7).
Twiggs, David E. **24**-127b.
Twiggs, W.Va. **28**-560 (B2).
— Co., Ga. **11**-752 (C3).
Twightwees, tribe : *see* Miami.
Twigworth, Glos. **9**-420 (III. C3).
Twihyndeman : *see* Churl.
Twilight, Ga. **11**-752 (B4).
TWILIGHT 27-492b ; **2**-928d.
TWILL 27-492d ; **28**-440d ; **26**-936a.
Twillingate, Nfd. **19**-479 (C2).
Twin, Ala. **1**-460 (B1).
—, lakes, Ia. **14**-732 (C2).
—, lakes, Me. **17**-434c.
Twin, lakes, Tib. **6**-168 (D3).
—, mt., Mont. **14**-276 (C2).
—, mt., Nev. **5**-8 (D1).
—, mt., Utah **27**-813d.
—, ponds, Nfd. **19**-470 (C2).
—, pools, Jerusalem **3**-828d.
Twin-axis **7**-582c.
Twin Bluffs, Wis. **28**-740 (C5).
— Branch, W.Va. **28**-560 (B4).
— Bridges, Mont. **14**-276 (C3) ; **18**-755d.
— Brooks, S.Dak. **25**-506 (I2).
— Buttes, mt., Colo. **6**-722 (H3).
— Buttes, mts., Ariz. **2**-544 (D2).
— Buttes, mts., N.Dak. **19**-780 (A3).
— Creek, riv., O. **20**-26 (B5).
— Creek, riv., Wyo. **28**-874 (D3) : **28**-874c.
Twine, lakes, Wis. **28**-740 (D2).
Twin earthquake **8**-819d.
— Falls, Ida. **14**-276 (B4) ; **14**-276c.
— Falls Co., Ida. **14**-276 (B4).
Twining, Louisa **4**-811a.
—, **THOMAS 27**-492d.
Twining, D.C. **17**-828 (D4).
—, Mich. **18**-372 (G5).
Twin Lakes, Conn. **6**-952 (B1).
— Lakes, Minn. **18**-550 (D7).
— Lakes, Wis. **28**-740 (E6).
Twinlones **23**-812c.
Twin Mountain, N.H. **19**-490 (D-E3).
Twinner (machine) **7**-306d.
Twinnge, Bur. **14**-376 (Q8).
Twinning (comb manufacture) **6**-750a.
— (crystall.) **7**-582b ; **6**-73a.
Twin Peaks, mts., San Francisco **24**-145a.
Twin-plane **7**-582c.
Twin River, pt., Wis. **28**-740 (F4).
Twins, isls., Can. **5**-160 (O5).
— (astron.) : *see* Gemini.
Twinsa (dict.) **17**-393d.
Twinsburg, O. **20**-26 (G-H2).
Twin Valley, Minn. **18**-550 (A3).
Twisleton-Wykeham-Fiennes (family) : *see* Saye and Sele.
Twisp, Wash. **28**-354 (E1).
—, riv., Wash. **28**-354 (E1).
TWISS, HORACE 27-492d.
—, **SIR TRAVERS 27**-493a ; **1**-241c.
Twister (handcuff) **10**-296b.
Twisting (weaving) **28**-446a ; silk **25**-107c ; wool **28**-815b.
Twist tobacco : *see* Roll tobacco.
— way yarn **28**-906a.
Twitchell, Ernst **5**-178d.
Twitchell, pond, Me. **17**-434 (B4).
Twitchen, Dev. **9**-430 (VI. E1).
Twite **16**-734b.
Twll du chasm, Wales : *see* Devil's Kitchen.
Two Angry Women of Abingdon (Henry Porter) **22**-115d.
Twobar, Wyo. **28**-874 (G-H4).
Two-barred crossbill **7**-509d.
Two Bridges, Dev. **7**-837d.
— Brothers, reef, Haw. **13**-84 (B3).
Two Brothers (Egyptian tale) **9**-48b.
Two Butte Creek, riv., Colo. **6**-722 (H4).
— Casks of Tallow, R. v. (1836) **28**-841c.
— chamber system **12**-295c ; **23**-111d.
— Creek, riv., Ark. **2**-552 (C4).
Twodot, Mont. **14**-276 (D-E2).
Two Epistles to Virgins, The **6**-491a.
Twofold, bay, N.S.W. **19**-538 (F5) ; **19**-538a.
Twofold Truth **24**-355d ; **22**-58c.
"Two Friends, the" (ship), *In re* (salvage case) **24**-100a.
Two Gentlemen of Verona (Shakespeare) **24**-779c ; **22**-7c ; **18**-766c.
Two-guinea piece **12**-697a.
Two-handed bridge (card game) : *see* Draw-bridge.
Two Harbors, Minn. **18**-550 (F3) ; **26**-113a.
Two-headed nightingale (twins) **18**-744b.
Two Hundred, Council of the **11**-591a.
Two Mountains, lake, Can. **22**-724 (C3) ; **14**-461b.
Two Musulman Travellers **25**-143d.
Two Noble Kinsmen, The (Shakespeare and Fletcher) **24**-782a ; **3**-593d.
Two old cat (game) **3**-458c.
— pair back **25**-762d.
Twopence (coin) **21**-116a.
Two-pound piece **25**-519c.
Two-power standard (British navy) **4**-613d ; **19**-311c.
Two Rivers, Minn. **18**-550 (A2).
— Rivers, Wash. **28**-354 (G3).
— Rivers, Wis. **28**-740 (F4).
— Rivers, riv., Can. **24**-225 (B1-2).
— Rock, mt., Ire. **8**-617d.
Tworun, Ga. **11**-752 (B1).
Two Sicilies, kingdom of the : *see under* Naples, history ; *and* Sicily, history.
Two-spindle drawing-box **28**-813d.
Two Thousand guineas (race) **13**-729b.
— toed anteater : *see* Pygmy anteater.
— toed sloth **8**-925b ; **17**-521c ; **25**-244c (fig.) ; skull **8**-924d (fig.).
Two to One (Colman) **6**-695c.
Two Tree, isl., Conn. **6**-952 (G4).
— Water Creek, riv., Utah **27**-814 (E3).
Twowoods, lake, S.Dak. **25**-506 (I3).
Two-year-old races **13**-736b ; **13**-730c.
Two Years before the Mast (R. H. Dana) **7**-792c.
Twrch, riv., Wales **9**-428 (V. D3).
Twyer : *see* Blast pipe.
Twyford, Berks. **9**-420 (III. F4).
—, Hants. **9**-420 (III. E4).
—, Leics. **1**-702b.
Twyne, Thomas **21**-342a.
TWYSDEN, SIR ROGER 27-493b ; **25**-122a.
Tyali (chief) **15**-628a.
Tyana (Kiz Hissar), Asia M. **2**-760 (F4) ; **23**-648 (F3) ; **5**-47c ; **5**-45b ; **19**-673d ; Hittite antiquities **2**-759d ; Moslem conquest **5**-33b ; sculptures **13**-536b ; site identified **5**-287b.
Tyanitis, dist., Asia M. **5**-287b.
Tyao, riv., Bur. **14**-376 (P8).
Tyard, Pontus de (bp.) **11**-122c.
Tyaskin, Md. **17**-828 (H4).
Tyasmin, riv., Russ. **19**-841a.
Tybald, Simon : *see* Sudbury, Simon of.
Tybee, Ga. **11**-752 (E3).
—, isl., Ga. **11**-752 (E4) ; **11**-757b ; **24**-240b.
Tyburn, manor, Mdx. **24**-30c.
TYBURN (Aye-bourne), riv., Lond. **27**-493d.
Tyburnia, dist., Lond. **16**-939a.
Tyburn Ticket, the **27**-494a.
— Tippet **27**-494a.
— Tree **27**-493a ; **7**-510b.
Tyche, Syracuse **26**-297d.
Tyche (myth.) **19**-335b ; coins of Seleucia **13**-241d ; Fortuna **10**-726d.
Tychicus (bibl.) **17**-118b ; *Colossians, Epistle to* **6**-727b ; *Ephesians, Epistle to* **9**-671a ; St Paul **20**-952b.
Tychism (philos.) **1**-114b.
Tycho (myth) **26**-456a.
Tycho (astron.) **18**-804a.
Tychonius (Tichonius : the grammarian) **8**-410d.
Tycho's star **25**-786c.
Tychsen, Olav G. **7**-630a.
Tycoon : *see* Shogun.
Tydalen, Nor. **19**-804 (D1).
Tyddewi, Wales : *see* St Davids.
Tydd St Giles, Cambs. **9**-424 (IV. C1).
— St Mary, Lincs. **9**-416 (II. H4).
Tydeman, B. **8**-567d.
TYDEUS (legend) **27**-494a.
Tydfil, St **18**-174d.
Tydides : *see* Diomedes.
Tydweiliog, Wales **9**-428 (V. B2).
Tyee beds **9**-663b.
Tye River, Va. **28**-118 (D3).
Tyers, Jonathan **13**-566d.
Tyers, lake, Victoria **28**-38 (E2).
Tyersall, Yorks. **28**-933 (C1) ; **22**-632d.
Tyfodwg, St **16**-830d.
Tyg (drinking cup) **8**-584b.
Tygart Valley, riv., W.Va. **28**-560 (C2) ; **12**-317d.
Tygelsjö, Swed. **26**-190 (B4).
Tygh Creek, riv., Oreg. **20**-242 (D2).
— Valley, Oreg. **20**-242 (D2).
Tygtorp, Swed. **25**-935 (B1).
Ty Gwyn Ar Dâf, Wales **5**-356c.
Tyi (lang.) : *see* Tshi.
Tyin, riv., Arab. **2**-264 (H4) ; **20**-100a.
—, mts., Arab. **2**-264 (H4).
Tyinsjö, lake, Nor. **19**-804 (C2).
Tykocin, Russ. **21**-929 (D2) ; **21**-930b.
Tyl, Joseph **4**-134d ; **8**-544b.
Tylas **28**-1010a.
— eduardi **18**-497a.
Tyldesley, J. T. **7**-442a ; **7**-446c.
—, Sir Thomas **16**-149c ; **28**-625d.
— of Tyldesley (family) **16**-141d.
TYLDESLEY with **SHAKERLEY**, Lancs. **27**-494a ; **16**-139 (D2).
Tylenchus **19**-362c.
Tyle-Place, farm, Berks. **28**-715c.
Tyler, Bennet **26**-472b.
—, Daniel **24**-836a ; **2**-74b.
—, **JOHN 27**-494a ; **27**-700a ; **2**-127c.
—, Lyon Gardiner **27**-495b.
—, **MOSES COIT 27**-495b ; **4**-34c.
—, Royall **1**-833b.
—, **WAT** or Walter **27**-495c ; **7**-837c ; revolt of (1381) **9**-508a, **14**-585a : *see also* Peasants' Revolt
Tyler, Ala. **1**-460 (C3).
—, Ark. **2**-552 (D2).
—, Minn. **18**-550 (A6).
—, Mo. **18**-608 (B5).
—, Pa. **21**-106 (E-F3).
TYLER, Tex. **27**-496b ; **26**-690 (M3).
—, Wash. **28**-354 (H2).
— Co., Tex. **26**-690 (N5).
— Co., Va. **28**-560 (B-C2).
— Creek, riv., S.C. **25**-500 (C3).
Tylerdale, Washington, Pa. **28**-353b.
Tyler Hill, Pa. **21**-106 (M2).
Tyleria **16**-124b.
Tylers, Va. **28**-118 (E3-2).
Tylers and Bricklayers Co. **16**-811a.
Tylers Branch, riv., Vt. **19**-490 (B2).
Tylersburg, Pa. **21**-106 (D3).
Tylers Fork, riv., Wis. **28**-740 (C2).
Tylersville, Pa. **21**-106 (H4).
Tylertown, Miss. **18**-600 (B4).
Tylerville, Conn. **6**-952 (E4).
Tylicz, pass, Carpathians **5**-383d.
Tylney, Edmund **23**-222b ; **17**-160a.
—, Richard Child, earl of **6**-135d ; **28**-304b.
Tylodinidae **11**-522b.
TYLOPODA 27-496b ; **17**-528a ; **2**-697c.
Tylopoma **11**-515b.
TYLOR, EDWARD BURNETT 27-498a ; **19**-134b ; animism **2**-53a ; couvade custom **7**-338b ; fasting **10**-194a ; fetishism **10**-295c ; fire-making **10**-400a ; magic **17**-305a.
Tylosoma **25**-153a.
Tylostoma : *see* Anthorhina.
Tylostyle **25**-724a.
Tylote **25**-724a.
Tylwch, Wales **9**-428 (V. E3).
Tylwyth teg **5**-321a.
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To make full use of this Index it is essential to read the instructions given on Page 1.

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Uckermünde, Ger. **11**-808 (D2).
Uckfield, Sus. **9**-424 (IV. C5); **26**-166c; **1**-413d.
Ucles : battle (1108) **25**-544b.
—, Order of **26**-598d.
Ucumari **21**-267b.
Ud, tribe : *see* Votiaks.
'Ud (mus. instr.) **17**-132c.
Uda, bay, Russ.As. **25**-10 (I3).
—, hill, N.S.W. **19**-538 (D3).
—, riv., Russ.As. (Maritime Prov.) **25**-10 (I3); **17**-724c.
—, riv., Russ.As. (Transbaikalia) **25**-10 (F-G3); **24**-601c; **3**-216a.
—, riv., Russ.As. (Yeniseisk) **25**-10 (E3).
Udab, Turk.As. : *see* Bismya.
UDAD **27**-554a; **24**-818b.
Udaeus (myth.) **26**-508b.
Udai, riv., Russ. **23**-874 (I. D1).
Udaia **18**-855b.
Udaipur, India (C. Prov.) **14**-376 (K8).
— (Mewar), India (Rajputana) **14**-376 (E7); **27**-554b; **22**-866a.
—, state, India (C. Prov.) **14**-382 (K8); **27**-554c; **5**-681c.
UDAIPUR (Mewar, Oodeypore), state, India (Rajputana) **27**-554a; **15**-428b.
Udaipuri **22**-865b.
Udai Singh (Bagar) **8**-680a.
Udal (Chandel hero) **13**-484d.
—, **NICHOLAS** **27**-554c; **8**-518d.
UDAL (dict.) **27**-556a.
Udalguri, India **14**-376 (O-P6); **26**-922c.
Udall, John **27**-117c; **1**-959b.
Udall, Kan. **15**-654 (E3).
Udana **4**-747b.
Udandapura (Otantapuri), India **3**-655a.
Udasi (sect) **7**-932c.
Udatta **24**-159a.
Uday (Uda Singh) **13**-486b.
Udaya (of Behar) **3**-654d.
Udayagiri, India (Ganjam Dist.) **14**-382 (L10).
—, India (Nellore) **14**-382 (H12).
Udayamperur, India : synod (1599): *see* Diamper Synod.
Udayashankar, Gaurishankar : *see* Vodeyshankar.
Ud-buti **14**-350d.
Udde, Norra, cape, Swed. **26**-190 (D3).
—, Södra, cape, Swed. **26**-190 (D3).
Uddeholm, Swed. **26**-190 (B1).
Uddeler Meer, lake, Holl. **13**-588 (C2); **13**-588d.
Uddevalla, Swed. **26**-190 (A-B2); **26**-194d.
Uddevallite **14**-327d.
Uddingston, Scot. **24**-418 (C3); **4**-304d.
Uddington, Scot. **24**-418 (D3).
Uddjaur, lake, Swed. **19**-800 (D2); **26**-189a.
Ude, Louis Eustache **7**-75b.
Ude, China **12**-168d.
Udell, Ia. **14**-732 (E4).
Uden, Arab. **2**-264 (B5); **28**-914a; coffee trade **18**-651d.
—, Holl. **13**-588 (C3).
Udenheim, Ger. : *see* Philippsburg.
Udeni, riv., Mor. **18**-851 (C4).
Udepur, India **14**-382 (L9).
Udeus (myth.) : *see* Udaeus.
Udgatar **24**-160a; **4**-379c.
Udgir, India **14**-382 (G10).
Udha-nala (Udhua Nullah, Oodey nullah), India **14**-408d.
Udi, tribe **16**-490a.
Udimore, Sus. **9**-424 (IV. D5).
Udine, Giovanni Martini da **27**-556b; **24**-567c.
UDINE, It. **27**-556b; **15**-4 (D1); cotton manufacture **7**-299b.
—, prov., It. **27**-556b; **15**-6d.
Udins, tribe **5**-548b.
Udipi, India **14**-382 (F13); **13**-509b.
Udjelong, isl., Pac.O. **20**-436 (E-F4).
Udlaidh, mt., Scot. **24**-418 (B2).
Udligger **12**-546c.
Ud-murt, tribe : *see* Votiaks.
Ud-Nun, Turk.As.: *see* Bismya.
Udny, Scot. **24**-412 (F2).
Udny *r.* Udny **8**-400c.
Udo (of Metz) **1**-449a.
Udonella **27**-240a; **27**-242a.
Udor, mt., S.Aus. **2**-960 (E4).
Udora, riv., Russ.: *see* Mezen.
Udraka (Brahmin) **4**-739a.
Udsk, Russ.As. **25**-10 (I3).
Udu, salt mines, India **4**-188a.
Udumu, Syr. **8**-949d.
Udura, Sp. **5**-324c.
Udvarhely, co., Hung. **3**-4 (I3).
Udyana, kingdom, India **27**-471b.
Uea (Uvea), isl., Loyalty Is., Pac.O. **20**-436 (M9); **17**-80b.
—, isl., Wallis Archip., Pac.O.: *see* Uvea.
Ueberlingen, Ger. **11**-808 (B5).
Uebermensch : *see* Overman, The.
UEBERWEG, FRIEDRICH **27**-556c; **16**-886a; Schleiermacher **16**-915a.
Uechtritz, Baron von **1**-174b.
Ueda, Jap. **15**-156 (L8).
Ueland, Ole **19**-811b.
Uelsen, Ger. **11**-808 (A2).
UELZEN (Löwenwold), Ger. **27**-556c; **11**-808 (C2).
Uematsu Homin (Jap. artist) **15**-189b.
Uemura (Jap. family) **15**-178b.
Ueno, Jap. **15**-156 (K9).
—, Tokyo : *see* Uyeno.
Uertsch, mt., Alps **1**-745c.
Uetliberg, mt., Switz. **26**-242 (E2); **1**-745a.
UFA, Russ. **27**-557b; **23**-872 (I5).
UFA, govt., Russ. **27**-556d; **23**-872 (H-I4).
—, riv., Russ. **23**-872 (I5-4); **27**-557a; **8**-126c.
Ufenau, isl., Switz. **26**-242 (F2); **28**-1060b.
Ufens, riv., It. **16**-271c.
Uffa (East Anglian chief) **26**-844a; **19**-820c.
Ufculme, Dev. **9**-430 (VI. F2).
Uffelte, Holl. **13**-588 (D2).
Uffenheim, Ger. **11**-808 (C4).
Uffington, Berks. **9**-420 (III. D3); ancient camp **28**-605b; church **3**-784b; railway **10**-179d.
Uffizi Gallery, Florence **10**-529d; **2**-672a; foundation **18**-38c; Fra Angelico's altarpiece **2**-7c.
Ufo : *see* Offa.
Ufford, Cicely (de Valoines), Lady **26**-25b.
—, John d' **23**-728a.
—, Sir Ralph de **26**-25b.
—, Robert de (d. 1298) **26**-25b; **14**-772a.
—, Robert de, 1st earl of Suffolk (d. 1369) : *see* Suffolk.
—, William de, 2nd earl of Suffolk : *see* Suffolk.
Ufford, Suff. **9**-424 (IV. E2); church **26**-29d, **28**-794a.
Ufipa, dist., Ger.E.Af. **3**-358c.
Ufiani, Bulg. **12**-288b.
Ugab, riv., Ger.S.W.Af. **25**-466 (A3).
Ugaguk, Alsk. **1**-472 (F4).
Ugaine Mór **14**-758b.
Ugala, riv., Ger.E.Af. **11**-771 (A2).
Ugalenza, tribe **9**-769b.
UGANDA, E.Af. **27**-557b; **27**-557 (map); ethnology **27**-558d, **1**-328c; exploration **1**-334a,**1**-352c,**19**-698b; Harem system **12**-950b; industries and commerce **27**-559c, **4**-603d, **7**-266b; languages **27**-559b, **3**-356d, **3**-358b; missions **18**-593d, **27**-560b, **12**-922b; omen-reading **20**-102a; railway **4**-603b.
— : *History* **27**-560a; **1**-345b; **4**-604c; Egyptian influence **27**-782b; frontier agreements **27**-557c, **1**-94c; war medal **18**-15b.
Ugange,Ger.E.Af. **11**-771 (A2).
Ugarrowa, Bel.Cong. **6**-923 (E2).
Ugashik, Alsk. **1**-472 (F4).
—, lakes, Alsk. **1**-472 (F4).
Ugass-Elmi, tribe **25**-380b.
Ugento, It. **15**-4 (G5).
Ugernum, Fr.: *see* Beaucaire.
Uggelhuse, Den. **8**-24 (C2).
Uggerby, riv., Den. **8**-24 (C1).
Uggerlöse, Den. **8**-24 (D3).
Uggeshall, Suff. **9**-424 (IV. F2).
Uggool beds (geol.) **16**-829c.
Ughei-nor, lake, China **15**-675c.
Ughi, India **14**-376 (E2); **4**-24c.
Ugi, isl., Pac.O. **7**-133d.
Ugie, riv., Scot. **24**-412 (F2); **1**-50a.
Ugijar, Sp. **25**-530 (D4); **1**-755a.
Ugines, Fr. **10**-778 (H5).
Ugliano, isl., Adriatic S. **3**-4 (D4).
UGLICH, Russ. **27**-563b; **23**-872 (E4).
Ugliches, tribe **21**-875b.
Ugo : *see* Hugh.
Ugo, prov., Jap. **15**-204c; **15**-159b.
Ugocsa, co., Hung. **3**-4 (H2).
Ugogo, dist., Ger.E.Af. **17**-834c.
Ugolina della Gherardescha : *see* Gherardescha.
Ugolini, Zanghino **14**-593a.
Ugolino (Gerstenberg) **11**-907b; **8**-540d.
Ugolino Conti de Segni : *see* Gregory IX.
— da Siena **21**-797b; **12**-688c.
Ugowe, bay, Br.E.Af. **28**-45c; Nile gauge **19**-696d.
Ugra, riv., Arab. **26**-305 (D4).
—, riv., Russ. **23**-872 (D5); **28**-193d; **25**-277c.
Ugra (geog. term) : *see* Yura.
Ugria, dist., Russ.As. **24**-118b.
Ugrian, str., Arct. : *see* Yugor.
— (languages) **10**-391a; **8**-961a.
Ugrians, tribe **10**-388c; in Bessarabia **3**-821c; Perm **21**-175b; Russia **23**-884a; Urals **27**-787a.
Ugri Bielli, tribe : *see* Khazars.
Ugro-Samoyedes, tribe : *see* Samoyedes.
Uguccione della Faggiuola **10**-533a; **5**-485a; **21**-645b; Dante **7**-813c.
Uguha, dist., Belgian Congo, **3**-291a.
Ugwara, mts., S.Af. : *see* Lukinga, mts.
Ugweno, mt., Ger.E.Af. **3**-358d.
Ugyen Gyatso **26**-924a.
Uhaimir, Turk.As. : *see* Kis.
UHDE, FRITZ KARL HERmann von **27**-563c; **20**-511a.
Uhehe, dist., Ger.E.Af. **23**-820b; **26**-875a.
Uhembe, lake, Port.E.Af. **25**-466 (L5).
Uhlan : *see* Ulan.
UHLAND, JOHANN LUDWIG **27**-563d; **11**-794b; *ottava rima* **20**-368d.
Uhland, Ala. **1**-460 (D3).
Uhlerstown, Pa. **21**-106 (M-N4).
Uhlhorn (engineer) **18**-562a.
— (theologian) **14**-293d.
Uhlmann, Joseph **3**-491d.
Uhrich, Jean Jacques Alexis **11**-11c.
Uhrichsville, O. **20**-26 (H4).
Uhtred (earl of Northumbria) **19**-794d; **9**-472d.
— (king of the Hwicce) **14**-24b.
Uhwawe, Fr.W.Af. **7**-736a.
Ui, riv., Russ. **23**-872 (K5); **27**-420 (C1); **27**-786c.
Ui (Irish names with prefix) : *see under* O'.
Uibat, riv., Russ.As. **27**-473c.
Ui Briuin, country of the, Ire. : *see* O'Brien.
Uifak, mt., Green. **12**-543 (D4).
Uig, Scot. (Hebrides) **24**-412 (B1); **16**-525a.
—, Scot. (Skye) **24**-412 (B2); **25**-206b.
UIGHUR (Uighour), tribe **27**-564a; **27**-469c; **27**-471c; China **6**-195c, **6**-196a; Hami **12**-877b; Justin II. embassy (569) **15**-828a; in Kashgar **15**-686a; Kulja under **15**-944b; in Siberia **25**-17d. *See also* Turks.

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Uighur (language) **27**-473a; **8**-199b; **23**-811c; Mongolian compared **18**-720c.
Uil, riv., Russ.As. **23**-872 (I6); **27**-420 (B2).
Uilsk, Russ.As. **23**-872 (H-I6); **27**-420 (B2).
Uina, val., Switz. **26**-242 (I3).
Uinkaret, plateau, Ariz. **2**-544 (B1).
Uinta, Utah **27**-814 (C1).
—, mts., Utah **27**-814 (D-E2); **27**-621a; **27**-813c.
—, riv., Utah **27**-814 (D2); **20**-82a.
— Co., Utah **27**-814 (E2).
— Co., Wyo. **28**-874 (B3).
Uintacrinidae **8**-878d.
Uintacrinus **7**-418a.
Uintacyon **5**-376a.
Uinta Forest Reserve, Utah **27**-814 (D-E2); **27**-814b; **27**-816b; **27**-819a.
— group (geol.) **9**-663b; **27**-629b; **22**-223c; **11**-670b.
Uintaite **12**-26a; **18**-508b.
Uintatheriidae **1**-795d.
Uintatherium **1**-795d; **9**-663b; discoverer **17**-769b.
Uinta Ute, tribe **14**-465b.
Uirad, tribes: *see* Oirad.
Uird, mt., Scot. **24**-418 (B2).
Uisg, lake, Scot. **18**-960d.
Uisge-Dhu, riv., Scot. **24**-418 (B1); **2**-486c.
Uisneach, Ire. **4**-488d.
Uissel, Guy (Gui) d': *see* Guy d'Uissel.
UIST, NORTH AND SOUTH, isls., Scot. **27**-564a; **24**-412 (A2).
Uitenbogaert, J.: *see* Uytenbogaert.
UITENHAGE, Cape Col. **27**-564b; **25**-466 (G9); **5**-233d.
— group (geol.) **5**-229b; **7**-416d; **28**-1009d; flora **5**-230d; Rajmahal group compared **9**-850d.
Uiteniquas, mts., Cape Col. **25**-466 (F9); **5**-227b; **5**-228c.
Uitgeest, Holl. **13**-588 (B2).
Uithuizen, Holl. **13**-588 (D1).
Uitlander **25**-467c; first reform movement **27**-199d, **25**-478c; Kruger **15**-932a; Loch **16**-840a; second reform movement **27**-202b, **25**-479d.
Uitspan **25**-467c.
Uja di Ciamarella, mt., Alps **1**-742d.
— di Mondrone, mt., Alps **1**-742d.
Ujain, India: *see* Ujjain.
Ujan, dist., Pers. **3**-81a.
Uj-Arad, Hung. **3**-4 (G3); **2**-312a.
Ujaupee (Uphapee) Creek, riv., Ala. **1**-460 (D3).
Ujbánya (Königsberg), Hung. **3**-4 (F2).
Uj Csatorna (New Channel), canal, Hung. **13**-895c.
Ujda, Mor. **18**-851 (F-G1); **18**-851a; **18**-858d.
Ujeft, Sah. **1**-215a.
Ujejski, Cornelius **21**-928b.
Ujer, port, Arab.: *see* Uker.
Ujest, Christian Kraft, duke of **27**-564b.
—, Hugo, duke of **27**-564b.
UJEST (Viast), Ger. **27**-564b; **11**-808 (G3).
Ujfalvy de Mezo-Kovesd, Charles Eugene d' **11**-397c.
Ujhely, Vág, Hung.: *see* Vág Ujhely.
Uji-gawa, riv., Jap.: *see* Yodo.
UJIJI (Kavele), Ger.E.Af. **27**-564c; **11**-771 (A2); **25**-779d.
Ujimasa (Kwanto chief) **15**-261d.
Ujishima, isl., Jap. **15**-156 (F11).
Ujiyamada, Jap. **15**-156 (K9).
UJJAIN (Avati, Ozene, Ujain), India **27**-564c; **14**-376 (F-G8); Asoka inscriptions **14**-624a; battle (1801) **21**-183d; Maurya dynasty **4**-188c; Pali language **20**-631b.
Ujlaki Miklos (NicolausUjlaki) **15**-129d; **17**-900c.
Uj-Moldova, Hung.: *see* Moldova, Uj.
Ujong Salang, isl., Mal.Penin.: *see* Junk Ceylon.
Uj-Pécs, Hung. **3**-4 (G4).
Uj-Pest (Neu-Pest), Budapest **3**-4 (F3).
Uj Sziget, Hung. **19**-148c.
Uj-Szöny, Hung. **15**-892a.
Ujüe, Jap. **15**-156 (M8).
Ujughen (Mongol khan) **5**-840a.
Ujum, mt., C.Am. **5**-678 (E6); **7**-220a.
Ujvár, Szamos, Hung.: *see* Szamos-Ujvár.
UJVIDEK (Neusatz), Hung. **27**-564d; **3**- (F4).
Uj-zerin, fort, Aus. **28**-1046a.
Uk, riv., Russ. **23**-872 (H4).
Ukamba, prov., Br.E.Af. **4**-601 (B3); **4**-603a; **4**-602b.
Ukambani (language) **3**-358d.
Ukami, dist., Ger.E.Af. **21**-300b.
Ukara, isl., Ger.E.Af. **11**-771 (B1).
Ukase: *see* Ukaz.
Ukassa, rapids, Bel.Cong. **6**-923 (D3).
Ukaturaka, Bel.Cong. **6**-923 (C2).
Ukawunda, Ger.E.Af. **11**-771 (A2).
Ukayala, Ger.E.Af. **11**-771 (A2).
Ukaz, plain, Arab.: *see* Okad.
UKAZ (edict) **27**-564d.
'Ukaz (fair) **2**-271a.
Ukbara, Turk.As. **9**-897a.
Ukbari (Arabian writer) **18**-905b.
Ukek, Russ.As. **18**-717c.
Uker, Arab. **2**-264 (F3); **13**-49a.
Ukerewe, isl., Ger.E.Af. **11**-771 (B1); **28**-45d; language **3**-358c.
Ukermark, dist., Ger.: *see* Uckermark.
Ukeshima, isl., Jap. **15**-156 (F13).
Ukhtomsky, Prince **23**-928b.
Ukhuwanah: battle (1029) **9**-96d.
Ukiah, Cal. **5**-8 (B2).
—, Oreg. **20**-242 (G2).
Ukida Hideiye **15**-242b.
Ukin-zer: *see* Yukin-zera.
Ukiyo-e **15**-175c; **13**-523d.
Ukiyo-e Chuko-no-so: *see* Utamaro I.
Ukkashah b. Mihsan **17**-410c.
Ukko (myth.) **23**-68a; **10**-385a; **10**-400c.
Ukni, riv., Pers. **9**-140d.
Ukök, plateau, China **1**-758b.
UKRAINE, dist., Russ. **27**-564d; **23**-874 (I. B-E1); **23**-874 (C-D5); **21**-914a; **23**-897b; dictionary **8**-195d; Khazar ramparts **15**-775d; Russian invasion (1792) **23**-901d; Sevcenko Society **23**-939b; Turkish wars **27**-451b. *See also* Orel (govt.).
Ukrainians, tribe: *see* Little Russians.
Ukrayna, dist., Russ.: *see* Orel (govt.).
Ukrul, India **14**-376 (Q7).
Ukushima, isl., Jap. **15**-156 (F10).
U-Kwo-tien-tzing **15**-188d.
Ul, riv., India **14**-376 (I6); **15**-776a.
Ulaccus, Adrian: *see* Vlacq.
Uladh, kingdom, Ire.: *see* Ulster.
Ulai, riv., Pers.: *see* Karun.
Ulaid, tribe: *see* Ulidians.
Ulakandi, India: *see* Bhairab Bazar.
Ulala: *see* Shalmaneser IV.
Ulalrich (name): *see* Ulrich.
Ulalume (Poe) **21**-880b.
Ulan, mt., China **6**-168 (G2).
ULAN **27**-564d.
Ulan-burgasu, mts., Russ.As. **3**-215d.
Ulandaban, pass, Russ.As. **27**-420 (G2); **1**-758a.
Ulanga, riv., Ger.E.Af. **11**-771 (C3); **23**-820a.
Ulankom (Ulangom), China **18**-712a; monastery **15**-884d.
Ulan Robat, Afg. **1**-314c; **2**-475b.
Ulasutai, China: *see* Ulyasutai.
Ulava, isl., Pac.O. **20**-436 (L9).
Ulba, riv., Russ.As. **1**-758c.
ULBACH, LOUIS **27**-565a.
Ul Bahrgan, cape, Pers. **21**-188 (A2-3).
Ulban, bay, Russ.As. **25**-10 (I3); **25**-12a.
Ulbo, isl., Adriatic S. **3**-4 (D4).
Ulbster, Scot. **24**-412 (E1).
Ulceby, Lincs. **9**-416 (II.G2).
ULCER **27**-565a; cervix, *see* Adenoma of cervix; colitis, *see* Colitis, ulcerative; of the cornea **10**-96a; of duodenum **4**-860d; glanders **12**-76d; of large intestine **8**-785d; pemphigus **21**-83a; perforating **25**-191a, **20**-80b; rodent **27**-376a; of the stomach, *see* Gastric ulcer; typhoid fever **27**-503b.
Ulcinium, Monten.: *see* Dulcigno.
Uldale, Cumb. **9**-412 (I. B3).
Uldin (chief of Huns) **13**-933b.
Uldsheitu: *see* Timur Khan.
Ule, riv., Russ. **23**-872 (C3); **10**-383c.
Ulea, lake, Russ. **9**-910c.
Uleaborg, Russ. **23**-872 (C2); **27**-565b; **25**-13b.
ULEABORG (Oulu), prov., Russ. **27**-565b; **23**-872 (C2).
Uleåträsk, lake, Russ. **23**-872 (C3); **10**-383c.
Ulefos, waterfall, Nor. **19**-804 (C3); **25**-187c.
ULEMA **27**-565b; **26**-103d; **27**-427c; council **9**-29c.
Ulen, Minn. **18**-550 (A3).
Ulenia, lake, N.S.W. **19**-538 (B1).
Ulenspiegel: *see* Eulenspiegel, Till.
Ulenty, riv., Russ.As. **27**-420 (E2).
Ule rubber **23**-797b; **23**-799d; **23**-801d.
Ulex: *see* Furze.
— europaeus, var. strictus: *see* Irish furze.
Ulexin: *see* Cytisine.
Ulexite **6**-665d; **4**-251c.
Ulf, Earl **6**-102c.
Ulfeld, Leonora Christina **8**-40c.
ULFELDT, KORFITS **27**-565b; **24**-585d.
Ulf Gudmarson **4**-557b.
ULFILAS (bp.) **27**-565d; Bible of **27**-566c, **17**-805b; Gothic alphabet **12**-276a, **20**-565a.
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—, J. C. **16**-700c.
—, **KARL** **27**-566d.
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—, Frederick Augustus, duke of: *see* York.
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—, Walter de Burgh, earl of **4**-814c; **27**-569a; **19**-594a.
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— Lakis, site, Pal. **16**-50a.
— Rujum, mts., Pal. **20**-602 (C6).
Um Nabardi, Egy. **26**-9 (C1); **26**-12a.
Umnak, isl., Pac.O. **1**-472 (C5).
—, pass, Pac.O. **1**-472 (D5).
Umnyati, riv., S.Af. **25**-466 (K2).
Umoru (sultan of Sokoto) **1**-349c.
Umove, Herz. : *see* Mostar.
Umpande (Zulu king) : *see* Panda.
UMPIRE (dict.) **27**-577d.
Ump-jaur, lake, Russ. **23**-873 (E2); **15**-887c.
Umpqua, mts., Oreg. **20**-242c.
—, riv., Oreg. **20**-242 (B4); **20**-242b.
Umptanum Creek, riv., Wash. **28**-354 (E3).
Umptekite **19**-384a.
Umpton, Sir Henry : *see* Unton.
Umra (pilgrimage) **17**-421a; **17**-954a.
UMRA KHAN (of Jandol) **27**-577d; **6**-252b; **8**-309a.
Umrawattee, India : *see* Amraoti.
Umrer, India **14**-382 (H9).
Umreth, India **14**-376 (E8).
Umri, state, India **14**-376 (G7); **12**-749d.
Umritsar, India : *see* Amritsar.
Um Rus, Egy. **9**-23c.
— Saba, spring, Arab. **13**-49a.
Umsasa, S.Af. **25**-466 (K1).
Umsasa (tree) **23**-261a.
Umsaskis, lake, Me. **17**-434 (C2).
Umsilikazi : *see* Mosilikatze.
Umslatos, riv., S.Af. : *see* Blood, river.
Umstadt, Gross, Ger. : *see* Gross Umstadt.
Umsturz-Vorlage **11**-894a.
Um Suf (bot.) **19**-695a; **26**-20a.
Umsunduzi, riv., S.Af. **21**-592c.
Umtali, S.Af. **23**-260 (D3); **23**-262b.
—, dist., S.Af. **25**-466 (L2).
Umtamvuna, riv., S.Af. **25**-466 (K8); **15**-629b.
Umtasa's, people **23**-261c.
Umtata, S.Af. **25**-466 (I8); **15**-629c; **5**-233b.
—, riv., S.Af. **15**-629b.
Umtegiza (Zulu chief) **28**-1054d.
Umtetwa, tribe **15**-628b; **28**-1051c.
Umthlangana (Zulu chief) **28**-1052b.
Umtomboti **19**-254a.
Umtonga (Zulu chief) **28**-1053a.
Umtubi, Port.E.Af. **25**-466(L3).
Um Tuir, Sud. **9**-129a.
Umvagaz : *see* Blood-wood.
Umvoti, riv., S.Af. **19**-253a.
Umvungu, riv., S.Af. **25**-466 (I2).
Umzila (Zulu chief) **11**-544d.
Umzimkulu, riv., S.Af. **25**-466 (K8); **19**-252d; **19**-253b.
Umzimvuba, riv., S.Af. : *see* St John's, riv.
Umzingwani, riv., S.Af. **25**-466 (I3).
Una, Ark. **2**-552 (C2).
—, mt., N.Z. **19**-624 (D5).
—, riv., Bosn. **3**-4 (E4); **4**-279c.
—, riv., Braz. **21**-178b.
Unadilla, Ga. **11**-752 (C3).
—, Neb. **19**-324 (H4).
—, N.Y. **19**-596 (E3).
—, riv., N.Y. **19**-596 (E3).
Unai, pass, Afg. **1**-309c; **15**-625c.
Unaka, mts., N.C. and Tenn. **26**-620 (G-H2); **2**-207d; **26**-619a.
— Springs, Tenn. **26**-620 (I1).
Unalakleet, Alsk. **1**-472 (E3).
Unalaska (Iliuliuk), Pac.O. **1**-472 (D5); **1**-544c.
—, isl., Pac.O. **1**-472 (C-D5); **1**-544a.
Unamis, Pa. **21**-106 (D6).
Unam sanctam (papal bull) **4**-207b; **6**-484b; **16**-240d.
Unamūn (anc. Egyptian envoy) **9**-48a; **9**-86b.
Unanue, Hipolito **21**-268d.
UNAO, India **27**-578a; **14**-376 (I6).
—, dist., India **27**-578a.
Unare, riv., Venez. **27**-989 (B2); **27**-988c.
Unar lens **21**-510d.
Unas (Una), pyramid, Egy. **4**-954 (B4); **9**-81d; **22**-684b.
Unatz, Monten. **18**-767 (A1).
Unau : *see* Two-toed sloth.
Unauthorized programme (1885) **5**-814b.
Unbleached (cotton cloth) : *see* Grey cloth.
Unc (Mongol khan) : *see* Wang.
Uncanonical Sayings of the Lord in Christian and Jewish Sources **2**-179a.
Uncaria **23**-808b; **5**-507b.
Uncas (Indian chief) **19**-819a.
Uncas, Okla. **20**-58 (D-E1).
Uncasville, Conn. **6**-952 (G4).
Uncataquissett, Mass. : *see* Milton, Mass.
Unchahra, India **19**-151d.
—, state, India : *see* Nagode.
Unchanagar, India : *see* Bulandshahr.
Un-ch-höng, Kor. **15**-156 (F6).
Uncia **19**-893a; **28**-483d; **28**-486c; **28**-488a.
Uncial characters **20**-559a foll.; Bible MSS. **3**-879c; Gothic alphabet **12**-276a.
Unciform bone **25**-176a.
Uncimenia **6**-251b.
Uncinaria **24**-538b.
— americana **2**-59a.
Uncinariasis : *see* Ankylostomiasis.
Uncinaria spicule **25**-723a (fig.).
Uncinate gyrus : *see* Hippocampal gyrus.
Uncini **5**-793a.
Uncinula **11**-341a.
— necator : *see* Vine mildew.
Uncites **8**-128a.
Unc Khan : *see* Ung Khan.
UNCLE (dict.) **27**-578a.
Uncle John Creek, riv., Okla. **20**-58 (D2).
Uncle Remus **13**-20a.
Uncle Tom's Cabin (H. B. Stowe) **25**-973a; **1**-838d.
Uncompahgre, Colo. **6**-722 (C3).
—, mts., Colo. **6**-722 (C3); **6**-718a.
— plateau, Colo. **6**-722 (B3).
—, reservation, Utah **27**-819a.
—, riv., Colo. **6**-722 (C3); **6**-718d.
—, val., Colo. **6**-722 (B3).
— Project (Colo.) **14**-853c.
— Ute, tribe **14**-465b.
Unconformability (geol.) **11**-665c; **11**-667c.
Unconscious cerebration **25**-706c.
— self : *see* Subliminal self.
—, The (Philos.) **18**-232d; **25**-1062d; **13**-36a.
Uncovering (salutation) **24**-95c.
UNCTION (dict.) **27**-578a.
Uncus (anat.) **4**-397c.
— (Lepidoptera) **16**-466a.
— (Rotifera) **23**-760d.
Und, India : *see* Ohind.
Undarwah, canal, India **25**-143a.
Undavalle, India **3**-842c.
Undecagon **22**-25d.
Undecane **20**-756a.
Undecylene **20**-76c.
Unden, lake, Swed. **26**-190 (C2).
Undenäs, Swed. **26**-190 (C2).
Underbridge (railway) **4**-533a.
Under-clay (coal-mining) **16**-867b.
Undercliff, The, Ventnor, I. of W. **9**-420 (III. E5); **27**-1012b.
Undercliffe, Colo. **6**-722 (F3).
—, Yorks. **28**-933 (C1).
UNDER-CROFT (arch.) **27**-578b. *See also* Crypt.
Underditch, Wilts. **28**-699b.
Underdowne, Thomas **13**-223c.
Underglaze **5**-706d; Chinese blue and red **5**-746a, **15**-185a; Japanese blue **15**-183c, **15**-185a; Persian black **5**-728a.
Undergraduate **12**-311d.
Underground Electric Railways Company, Lond. **16**-944b; **28**-918c.
— onion : *see* Potato onion.
— Railroad : fugitive slaves **11**-289a.
— railways **22**-856c.
Underground Russia (Stepniak) **25**-890a.
Underhill, John **19**-496c; **20**-428b; **25**-1055c.
Underhill, Vt. **19**-490 (B2).
—, Wis. **28**-740 (E4).
Underlease (law) **16**-157d.
Underpitch (arch.) **12**-611d.
Under River, Kent **16**-942 (E4).
Under-sheriff (U.S.) : *see* Deputy sheriff.
Undershot water-wheel **14**-96c.
Understanding (psychol.) **22**-590a; **15**-670b; **11**-230a; **15**-116b.
Undersvik, Swed. **19**-800 (C-D3).
Undertakers (Irish politics) **10**-525b.
Under the gun (poker) **21**-901a.
Underwood, John C. **7**-868c.
Underwood, Ia. **14**-732 (B3).
—, Ind. **14**-422 (F7).
—, Minn. **18**-550 (B4).
—, N.Dak. **19**-780 (C2).
—, Wash. **28**-354 (D4).
Underwoods (Ben Jonson) **15**-505d; **9**-691a.
Underworld **21**-457b.
—, Egyptian **9**-51b.
UNDERWRITER **27**-578b; **14**-676c; **27**-336c.
Undetermined multiplier **17**-919d; **27**-915c.
Undi, Port.E.Af. **23**-260 (D2).
Undine, Ga. **11**-752 (D3).
Undine (Fouqué) **10**-750a.
" Undine " (German cruiser) **24**-911d.
Undistributed middle (logic) **26**-282d.
Undu, pt., Pac.O. **10**-335 (C1).
Undue influence (law) **7**-39c; **7**-198a; will **28**-656c.
Undulating membrane **14**-560b; **27**-342d.
Undulator apparatus (teleg.) **26**-520d.
Undulatory theory of light : *see* Wave theory of light.
Undulina : *see* Trypanosoma.
— ranarum : *see* Trypanosoma rotatorium.
Unduloid (liquid film) **5**-268d.
Undusuma, dist., Bel.Cong. **9**-340d.
Undwande, tribe **15**-628b; **28**-1051d.
Unebourg, D. R. Vandamme, count of : *see* Vandamme.
Unelli, tribe **7**-337a; **19**-749b.
UNEMPLOYMENT **27**-578b; **5**-889b; French national workshops **19**-272c; trade unions **27**-145c; Unemployed Workmen's Act (1905) **5**-889c.
Unfrock (dict.) **11**-238c.
Ung, co., Hung. **3**-4 (H2).
—, lake, China **6**-168d.
—, riv., Hung. **3**-4 (H2); **5**-383b.

For Key to Contractions, etc., see Page 1.

Unga, isl., Pac.O. **1**-472 (E5).
Ungalia **23**-163b; **23**-175a.
Ungal-zaggisi : *see* Lugalzaggisi.
Ungara (people) : *see* Mandingo.
Ungaran, Jav. **15**-290c.
Ungarie, N.S.W. **19**-538 (D3).
Ungarisch-Altenburg, Hung. : *see* Magyar-Ovár.
Ungarisch Brod, Aus. **3**-4 (E2).
— Hradisch, Aus. **3**-4 (E2); **18**-817c.
Ungava, bay, Can. **5**-160 (Q4); **16**-29b.
UNGAVA, dist., Can. **27**-580d; **5**-160 (O-S5); **16**-29d; geology and climate **5**-144b, **5**-146c.
Ungeld (excise duty) **6**-786a.
Ungeni, Russ. **23**-874 (I. A-B3).
Unger, Carl Richard **14**-239b; **19**-817a.
—, Franz **4**-301a.
—, F. W. **24**-658a.
—, K. **1**-531d.
Ungern-Sternberg, Maria Stella, countess : *see* Maria Stella.
Ungesforbundt, De (H. Ibsen) **14**-225c.
Unghyuz, val., Russ.As. : *see* Kilif-Uzboi.
Ungkalkater, cape, Jav. **15**-284 (A-B2).
Ung Khan (Awang Khan) **22**-305d.
Ungko : *see* Waw-waw.
Unguiculate **5**-366d.
Unguis (bot.) : *see* Claw.
Unguja, isl., E.Af. : *see* Zanzibar.
Ungulae (Roman torture) **27**-74a.
UNGULATA **27**-581a; **17**-526a; ancestry **17**-525d, **21**-364b; colon **1**-670a; dental formulae **26**-503a; distribution **17**-527c; duration of life **16**-975d; tactile organs of **27**-94c.
— vera : *see* Diplarthra.
Unguled (her.) **13**-326d.
Ungulina **16**-123a.
Ungulinidae **16**-123a.
Ungulite grit **5**-88b.
Ungungun (people): *see* Aleuts.
Unguru, mts., Ger.E.Af. : *see* Nguru.
Ungus (Pictish king) : *see* Angus.
Ungvár, Hung. **3**-4 (H2).
Unhaes da Serra, Port. **7**-344c.
Uni (Etruscan goddess) **9**-856d.
Uni (Norseman) **14**-232a.
Uniab, riv., Ger.S.W.Af. **25**-466 (A3).
Uniao, Braz. **4**-440 (K4).
— da Victoria, Braz. **4**-440 (B6).
Uniat (United) Oriental Churches **23**-487d; **15**-789b; **16**-347d.
Uniaxial crystals **7**-586c; **7**-589d; **7**-590a.
Unicardiidae **16**-123a.
Unicardium **16**-123a.
Unico Aretino, I' : *see* Accolti, Bernard.
Unicoi, Tenn. **26**-620 (I1).
— Co., Tenn. **26**-620 (I1).
UNICORN **27**-581c; **2**-346c; in heraldry **13**-326c, **13**-329b.
— (astron.) : *see* Monoceros.
— sheep **24**-819a.
Unicostate (bot.) **16**-323d.
Unicum shutter (phot.) **21**-516a.
Unicursal (curve) **7**-662a.
Unie, Asia M. **2**-565 (A1).
—, isl., Adriatic S. **3**-4 (D4).
Uniformitarians (geol.) **11**-643d.
Uniformity, Acts of **9**-450a; **9**-532c; **9**-539d; Amendment Act (1872) **7**-66b; Book of Common Prayer **22**-259d, **22**-262a; Clarendon code **6**-430c; effect on schools **24**-370a; Eucharist **9**-877a; Sunday observance **26**-95c; university offices **26**-665c.
UNIFORMS **27**-582b.
Unigenitus (papal bull) **23**-492a; **15**-154a; **10**-849a; Benedict XIII. **3**-719b; Christophe de Beaumont **3**-591c; Crébillon's attack **7**-389a; Innocent XIII. **14**-583b.
Unilocular (bot.) **10**-570b; **11**-254b.
Uniloculina (Protozoa) **10**-630b; **10**-633b.
Unimak, isl., Pac.O. **1**-472 (D5); **28**-189d.
— Pass, chan., Pac.O. **1**-472 (D5).
Uninka, Ger.E.Af. **11**-771 (A1).
Unio **16**-123b; **16**-113a; geological age **22**-658a; hibernation **13**-446b; pearls **21**-26a; symbiosis **4**-14a.
— margaritiferus : *see* Pearl mussel.
— valdensis **28**-627a.
Uniola (grasses) **12**-373b.
Union, Ark. **2**-552 (C1).
—, Cal. : *see* Arcata.
—, Can. **4**-600 (D3).
—, Conn. **6**-957a.
—, Fla. **10**-540 (C6).
—, Ga. **11**-752 (B3).
—, Ia. **14**-732 (D2).
—, Ida. **14**-276 (C-D4).
—, Ill. **14**-304 (D1).
—, Ind. **14**-422 (C8).
—, Kan. **15**-654 (G2).
—, Ky. **15**-740 ((D2).
—, La. **17**-54 (b6).
—, Me. **17**-434 (C4).
—, Mex. **18**-318 (E4).
—, Mo. **18**-608 (F3).
—, N.C. **19**-772 (E-F1).
—, N.Dak. **19**-780 (F-G1).
—, Neb. **19**-324 (I4).
—, N.H. **19**-490 (E5).
—, N.J. (Bergen Co.) **27**-593c.
—, N.J. (Camden Co.) : *see* Gloucester City.
UNION (Town of Union), N.J. (Hudson Co.) **27**-593b; **19**-596 (H2): *see also* West New York.
—, N.J. (Hunterdon Co.) **27**-593c.
—, N.J. (Ocean Co.) **27**-593c.
—, N.J. (Union Co.) **19**-502 (A2); **27**-593c.
—, N.Y. **19**-596 (D3).
—, Okla. **20**-58 (D2).
— (Aguimaro), Peru **21**-264 (B3).
UNION, S.C. **27**-593c; **25**-500 (C2).
—, W.Va. **28**-560 (C4).
—, bay, Mich. **18**-372 (B4).
—, canal, Cambs. **5**-170c.
—, canal, Penn. **22**-940c.
—, canal, Scot. **24**-418 (D3); **24**-424d; **16**-732b; water supply **8**-945a.
—, dist. La. **17**-54 (B1).
—, isl., W.I. **28**-544 (E-F2).
—, isls., Pac.O.: *see* Tokelau.
—, lake, Wash. **24**-563b.
—, pass. Ariz. **2**-544 (A2).
—, riv., Me. **17**-434 (D4); **9**-295b.
Union (textile) **10**-380a.
Union (Act of, Ireland and England 1800) **9**-553b; **14**-781b; Castlereagh **16**-969b; Grattan's opposition **12**-380b; Pitt's policy **21**-674b.
— (Act of, Wales and England 1536) **28**-264c.
— (Edict of, 1588) **13**-866b.
Union, The (Aragonese charter, c. 1330) **25**-548b.
Union, The (American newspaper) **19**-568d.
Union American Methodist Episcopal Church **18**-296d.
— Bank of London **3**-351c.
— black (dyestuff) **8**-746b.
— Bridge, Md. **17**-828 (E1).
— Car Works, Buffalo, N.Y. **4**-756a.
— Castle Steamship Company **25**-858c; **5**-234a; "Kenilworth Castle" **24**-887b.
— Center, Ind. **14**-422 (D2).
— Center, Wis. **28**-740 (C5).
— centrale des agricultures de France **10**-783a.
— Church, Miss. **18**-600 (B4).
— City, Conn. **6**-952 (C3).
— City, Ind. **14**-422 (H4).
— City, Mich. **18**-372 (E7).
— City, Mo. : *see* Joplin.
— City, Pa. **21**-106 (C2).
— City, Tenn. **26**-620 (B1).
— Civica **2**-472c.
— Civica Radical **2**-473b.
— clockwork signal (railway) **25**-76d (fig.).
— Club, Lond. **6**-567c.
— Club, N.Y. **6**-568a.
— Co., Ark. **2**-552 (C4).
— Co., Ga. **11**-752 (C1).
— Co., Ia. **14**-732 (C4).
— Co., Ill. **14**-304 (C6).
— Co., Ind., **14**-422 (H5).
— Co., Ky. **15**-740 (A3); **15**-742a.
— Co., Miss. **18**-600 (C-D1).
— Co., N.C. **19**-772 (B2).
— Co., N.J. **19**-502 (A3 and D2).
— Co., N.Mex. **19**-520 (G1).
— Co., O. **20**-26 (D4).
— Co., Oreg. **20**-242 (G-H2).
— Co., Pa. **21**-106 (H-I3-4).
— Co., S.C. **25**-500 (C2).
— Co., S.Dak. **25**-506 (I5).
Union Co., Tenn. **26**-620 (H1).
Union Co. College (Schenectady, N.Y.) **23**-23d.
— Creed (433) **9**-676b.
Uniondale, Ind. **14**-422 (G3).
Union Dale, Pa. **21**-106 (M2).
Uniondale, S.Af. **25**-466 (F9); **5**-233b.
Union Defence Committee (N.Y., 1861–1862) **10**-427b.
— des églises évangéliques de France **13**-868b; **22**-288c.
— dock, Grimsby **12**-603c.
— Dry Docks, Buffalo, N.Y. **4**-756a.
— dynastique, France **10**-872a.
— Fire Office, London **14**-658a.
— Furnace, O. **20**-26 (F6).
— Furnace, Pa. **21**-106 (F4).
— Générale, France **2**-143a.
— Grove, Ala. **1**-460 (C1).
Uniongrove, Ill. **14**-304 (C2).
—, Ind. **14**-422 (F3).
Union Grove, Wis. **28**-740 (E-F6).
Unionhall, Ire. **14**-744 (B5).
Unionhill, Ark. **2**-552 (D2).
Union Hill, Ill. **14**-304 (D2).
— Hill, N.J. : *see* Union.
— Humane Society **17**-124b.
Unionidae **19**-95a; **16**-112d; **16**-119b; **16**-123b.
Union Ironworks, San Francisco **24**-963b.
Unionist Free Food League : *see* Free Food League.
— Party (England) **6**-977a.
— Party (S.Africa) **5**-246b.
Unionists (R. C. fraternity) **2**-566d.
Union Jack (flag) **10**-458c; **10**-463a.
Union Jack (magazine) **13**-303d.
Union Jack Club, Lond. **16**-949b.
— **LEAGUE OF AMERICA, The** **27**-593c.
— libérale (France) **10**-871b.
— Lighterage Co. *v.* London Graving Dock Co. (1902) **8**-826d.
— Mills, Ind. **14**-422 (D2).
— Mills, I. of M. **9**-412 (I. A2).
— minière du Haut Katanga **6**-920d.
— of Banks of Issue (Italy) **15**-23c.
— of England and Scotland **9**-532c; **9**-536a; **9**-544a; act of 1707 **24**-453d; Cameronians' objection **5**-109d; duke of Atholl's opposition **2**-850d; financial reforms dating from **9**-464d; lord high chancellor's authority **17**-3b; parliamentary representation **4**-273c, **20**-843b; tithe of agistment abolished **1**-377b.
— of Evangelical Estates (Germany, 1608) **11**-59b.
— of German Booksellers (1825) **21**-261c.
— of hearts **23**-307a.
— of South Africa (1910) **25**-467c.
— of the Russian people **23**-910a.
— of Utrecht (1579) **13**-595d.
— of Virtue : *see* Tugendbund.
— Pacific railway (U.S) **22**-821d; **1**-850b; **6**-722a; Harriman's control of **13**-18a.
— Party (Georgia) **11**-756c.
— pipe (mus.) **3**-203d; **3**-205a; **8**-590a.
— Point, Ga. **11**-752 (C2).
Unionport, Ind. **14**-422 (G4).
—, N.Y. **19**-596 (E4).
—, O. **20**-26 (I4).
Union Régionaliste Bretonne **5**-621a.
— Roll (precedence) **22**-269c.
— shops (co-operation) **7**-83d.
— Springs, Ala. **1**-460 (D3).
— Springs, N.Y. **19**-596 (D3).
— Star, Ky. **15**-740 (B3).
— Star, Mo. **18**-608 (B2).
— Steamship (Steam Collier) Company **25**-858b.
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Uranoscopidae **26**-545d.
Uranoscopus scaber **18**-497b.
Uranotaenia **18**-901d.
Uranous chloride **27**-788c.
— fluoride **27**-788c.
— hydrate **27**-788c.
URANUS (myth.) **27**-789c; **19**-141b; Aphrodite **2**-167c; Cronus **24**-231a; Cyclopes **7**-686d; Erinyes **9**-745a; Oceanus **19**-988a; Rhea **23**-231c; Themis **26**-758b; Titans **26**-1019a.
URANUS (planet) **27**-788d; **21**-715d; atmosphere **21**-716c; Neptune, discovery of **19**-386a; Newcomb **19**-475a; spectrum **21**-716 (Pl. I.).
Uranyl chloride **27**-788d.
— nitrate **27**-788d.
— sulphide **27**-788d.
Urardhu, Arm.: *see* Van.
—, anc. country, Asia: *see* Ararat.
Urariquira, riv., Braz. **1**-785 (map).
Urasa, Jap. **15**-156 (L8).
Urase **3**-164c.
Urasova, Russ. **23**-874 (I. G1).
URA-TYUBE, Turkest. **27**-789d; **27**-420 (D4).
Uraugiensis: *see* Ekkehard (abbot of Aura).
Urawa, Jap. **15**-156 (L9).
Urazole **27**-261d.
Urbach **19**-946d.
— Thal, Switz. **26**-242 (E3).
Urbain, Georges **9**-953b; **26**-637b; **28**-942c.
Urbakh, Russ. **23**-872 (G5).
URBAN I., St (pope) **27**-789d.
— **II.** (pope) **27**-789d; **20**-691d; indulgence to crusaders **21**-608c; investiture dispute **14**-722d; Limoges synod **16**-700a; Philip I. excommunicated **21**-378c; William Rufus **28**-662b, **2**-81d.
— **III.** **27**-790b.
— **IV.** **27**-790c; **23**-675a; **7**-193b; **18**-360a.
— **V.** **27**-790d; **23**-679c; **12**-209d.
— **VI.** (pope) **27**-791a; **23**-680b; **20**-702b; Baldus de Ubaldis **3**-244c; crusade (1382) **8**-102b.
— **VII.** **27**-791c.
— **VIII.** **27**-791c; **20**-712c; **15**-42b; breviary altered **4**-504a; canonization and beatification defined **5**-192b; Eminence, title of **9**-339a; Galileo **11**-408b; Lope de Vega **27**-966a; polyglot press founded **7**-641b; St Peter's consecrated **20**-708b.
—, C. **21**-506d.
Urbana, Ark. **2**-552 (C4).
—, Ia. **14**-732 (F2).
—, Ill. **14**-304 (D3); **5**-828c.
—, Ind. **14**-422 (F3).
—, Md. **17**-828 (E2).
—, Mo. **18**-608 (C4).
—, N.Y. **19**-596 (C3).
URBANA, O. **27**-792a; **20**-26 (C4).
Urbancrest, O. **20**-26 (K-L3).
Urban district: *see* District *and* District Council.
Urbanette, Ark. **2**-552 (B1).
Urbania, It. **15**-4 (D3).
Urbanna, Va. **28**-118 (F3).
Urban quaestors: *see* Quaestores urbani.
Urbanus (of Bologna) **2**-281d.
Urbanus, riv., Bos.: *see* Vrbas.
Urbanus Sylvan: *see* Becching, Henry Charles.
Ur-bau (Babylonian king): *see* Ur-gur.
Urberget: *see* Grundfjeldet.
Urbéri szabályzat **13**-915b.
Urbicus, Lollius (Roman general) **4**-584b.
—, Lollius (Roman historian) **2**-906c.
Urbino, Federigo da Montefeltro, duke of **12**-55d; **22**-900d; **16**-551a; **23**-347a.
—, Francesco Maria I., duke of: *see* Francis Maria I.
—, Lorenzo de' Medici, duke of: *see* Medici, Lorenzo de'.
URBINO (Urvinum Mataurense), It. **27**-792a; **15**-4 (D3); French annexation (1808) **15**-47b; majolica **5**-734b, **5**-740 (Pl. VI.); metropolitan see: suffragans **15**-18b; palace **22**-900d; papal dominion **18**-39b, **25**-805d; political position (1453) **15**-39d; university **15**-17a.
Urbinus, Codex (Isocrates) **25**-916a.
Urbion, mt., Sp. **25**-530 (D1); **25**-444a; **8**-450c.
Urbisaglia, It.: *see* Urbs Salvia.
Urbiztondo, P.Is. **21**-392 (A4).
"Urbs beata Hierusalem" (hymn) **14**-185d; **14**-187b.
Urbs Rubra, Fr.: *see* Rennes.
URBS SALVIA (Urbisaglia), It. **27**-793a; **15**-26 (D3).
— Vetus, It.: *see* Orvieto.
Urcel, Fr. **10**-778 (F2); **1**-447d.
Urceocharis **9**-868d.
Urceola elastica **23**-801a.
— esculenta **23**-797c.
Urceolaridae **14**-561c.
Urceolate **10**-564c.
Urceolina **9**-868d.
Urceolus **10**-467b.
Urceus **5**-724a.
Urchany, Scot. **19**-155c.
Urchard, Sir Thomas: *see* Urquhart.
Urchfont, Wilts. **9**-420 (III. D4).
Urchha, state and town, India: *see* Orchha.
Urchin (zool.): *see* Hedgehog.
Urci, Sp.: *see* Almeria.
Urcuccocha, lake, Ec. **8**-911 (D3).
Urcuray, Fr. **21**-96c.
Urd: *see* Green gram.
Urda, Sp. **25**-530 (D3).
Urdains, Fr. **21**-96b.
Urdaneta, P.Is. **21**-392 (B4).
Urdesci, Rum. **23**-826 (C-D1).
Urdeutsch **11**-778c.
Urdevarre, mt., Nor. **19**-800 (E1).
Urdingen, Ger. **11**-808 (I. j6).
URDU (dialect) **27**-793b; **13**-479d; **13**-487c.
Urdun, prov., Syr. **26**-309b.
Urdu Zaban (dialect): *see* Urdu.
Ure, riv., Fr. **2**-460b.
—, riv., Yorks. **9**-412 (I. E4); **9**-416 (II. E1); **28**-520a.
UREA (chem.) **27**-793b; **19**-927d; **6**-48a; **16**-747c; ammoniacal fermentation **3**-158a; bacterial decomposition **3**-164c.
Uredineae **11**-342c; **11**-337a; **11**-343c; physiological differentiation **11**-344d; spore dispersal **11**-336c.
Uredospore **11**-342c.
Ureides **27**-794a.
Urek, Russ. **24**-206d.
Urenchelys **26**-544d.
Urenga, mt., Russ. **27**-556d.
Ur-Engur (Babylonian king): *see* Ur-Gur.
Urenui, N.Z. **19**-624 (E3).
Ures, Mex. **25**-416d.
Ureshino, spa, Jap. **15**-161a.
Ureter **27**-798d; **27**-799d.
URETHANE (chem.) **27**-794d; **1**-856c; **1**-909b.
Urethra (female) **27**-799a; **23**-133a.
— (male) **23**-130d; **27**-798d; lead lotion **16**-320a; stricture **4**-27d.
Urethroscope **26**-135c (fig.).
Urezzas, Fuorcla de, pass, Alps **1**-745d.
Urf (Mahommedan law) **26**-105c; in Persia **21**-201a.
Urfa, Asia M. **2**-760 (H4); population **27**-426c. *See also* Edessa.
Urfahr, Aus. **3**-4 (D2); **16**-737a.
URFE, HONORE D' **27**-795a; **22**-454d; **13**-199a; French romance **13**-384d; pastoral **20**-896d.
Urfi (of Shiraz) **21**-251c.
URGA, China **27**-795b; **25**-10 (F4); climate **18**-712a; rainfall **2**-745a; routes **12**-168b, **6**-133d.
—, lake, China **18**-711c.
Urgel, Llanos del, dist., Sp. **25**-530 (F2); **16**-483c; **1**-966b.
Urgency order (law) **14**-615d.
Urgenj, Russ.As. **27**-420 (B3); **18**-718b.
—, kingdom, C.Asia: *see* Khwarizm.
Urgeschichte und Sprachvergleichung (Schrader) **15**-581d.
Urginea **16**-683d.
— Burkei: *see* Slangkop.
— indica **25**-747c.
— scilla: *see* Squill.
Urgo, isl., It.: *see* Gorgona.
Urgone, stream, It.: *see* Pisciatello.
Urgonian group (geol.) **7**-416b; **11**-670b.
Urgull, cliff, Sp. **24**-155c.
Urgun, Afg. **14**-376 (C3).
Ur-Gur (Babylonian king) **27**-784a; **11**-562d; buildings **3**-103c, **19**-707c; Lagash **16**-72d; tables **3**-868a, **3**-106b.
Urgwemmi, mt., Mor. **18**-851 (C3).
Urhai: *see* Osroes.
Urh-hai, lake, China: *see* Erh-hai.
Urhoi, Mesop.: *see* Edessa.
Uri, bay, Switz. **17**-98a.
URI, canton, Switz. **27**-795d; **26**-242 (F3); **26**-248a; inhabitants **26**-247b;
Uri (rice) **3**-731b.
Uria, It.: *see* Oria.
Uria (zool.): *see* Guillemot.
— arra (bruennichi) **16**-989c.
— grylla: *see* Black guillemot.
Uriage, Fr. **18**-520d.
Uriah (the Hittite) **7**-858a.
Uriah, Pa. **21**-106 (H5).
Urial, anc. dist., Ire.: *see* Orgial.
Urial (sheep) **24**-818b.
Uriaparia, riv., S.Am.: *see* Orinoco.
Uribante, riv., S.Am. **20**-275c.
Uribu-punga, falls, Braz. **20**-766b.
Uriburu, José **2**-474a.
URIC ACID **27**-796d; **19**-927d; **22**-663d; animal pigment **6**-735a; calculus **4**-28c; gout **12**-291b, **18**-197c; leucaemia **18**-197c; piperazin **21**-635a.
Uricana, riv., Venez. **27**-989 (B2); **27**-988c.
Urich, Mo. **18**-608 (B-C3).
Uricoechea, Ezequiel **6**-706a.
Uriconian group **28**-823c; **22**-266c.
URICONIUM, Salop **27**-797a; **4**-584 (B5); Basilica **3**-471d; Saxons **4**-589b; pottery **5**-742a.
Urid: *see* Green gram.
Uridom Nosob, riv., Ger.S.W. Af. **25**-466 (D4).
Uric, riv., Scot. **8**-406b.
Uriel (archangel) **11**-381b.
Uriel, kingdom, Ire.: *see* Oriel.
Urien (British prince) **17**-19b; **25**-999c.
Urigi, lake, Ger.E.Af. **11**-771 (A1).
Urigill, lake, Scot. **24**-412 (D1).
Urikon, Switz., **26**-242 (F2).
Urilla, N.S.W. **19**-538 (B1).
URIM AND THUMMIM **27**-797a; **18**-842d; **13**-181b.
Urin (sheep) **24**-818b.
Urinal **24**-739c.
Uri-nanib, mts., Ger.S.W.Af. **25**-466 (D5).
Urinary sinus **27**-800a.
— **SYSTEM** **27**-797d; drugs **21**-353a.
Urine (med.) **19**-927c; **27**-798d; alkaline **4**-28b; blackwater fever **4**-27a; diabetes **8**-145a; diuretics **8**-325c; **27**-801b; fever **10**-306a; incontinence **4**-30b; insanity **14**-601b; jaundice **15**-282a; kidney diseases **15**-786c; prostatitis **4**-30d; retention **4**-30b, **15**-786c.
Urio (composer) **12**-915a.
Uri Phoebus ben Aaron Ha-Levi **2**-846b.
Uri Rothstock, mt., Alps **26**-242 (F3); **1**-744a.
Urishay, site, Wales **13**-106a.
Urisino, N.S.W. **19**-538 (B1).
Uriti, N.Z. **19**-624 (F4).
Uritone: *see* Urotropin.
U-rit-taung, Bur. **14**-382 (P9).
Uritu-yacu, riv., S.Am. **21**-264 (C1-2).
Uriu (Japanese admiral) **23**-921a.
Uriwera, dist., N.Z. **19**-624 (F3).
—, tribe, N.Z. **19**-624c.
Uriya (language): *see* Oriya.
Uriyur, India **6**-132a.
Urk, isl., Holl. **13**-588 (C2); 13-592c.
Urlatzi, Rum. **23**-826 (C2).
Urlaun, mt., Alps **1**-744d.
Ur lifret (Edgren-Leffler) **8**-936d.
Urlingford, Ire. **14**-744 (D4); **15**-793c.
Urmal, riv., India **4**-797c.
Urman, forest, Russ.As. **26**-1042c.
Urmeng, Turkest. **6**-168 (D1).
URMIA (Urmi), Pers. **27**-800c; **21**-188 (A1); climate **21**-191a; mines **21**-197b.
URMIA (Matianus), lake, Pers. **27**-800d; **21**-188 (A1); **23**-648 (G3); drainage **21**-189d; rivers **3**-81a; shipping **21**-198b.
Urmieh, Pers.: *see* Urmia.
Urmir, Afg. **15**-631c.
Urmiyah, dist. and lake, Pers.: *see* Urmia.
Urmogaitu, pass, Russ.As. **27**-420 (G2).
Urmond, Holl. **13**-588 (C4).
Urmston, Lancs. **16**-139 (D3); population **16**-140b.
URN (dict.) **27**-801b.
— (cinerary): Anglo-Saxon **4**-594d; bronze age **4**-641a, **2**-352 (Pl. V.); Celtic custom **2**-351b; Etruscan **5**-721d, **9**-859d; Greek **5**-712c; Mexican **1**-812 (Pl. III. figs. 3, 4); prehistoric **26**-999d; Scandinavian **24**-289b; Villanova period **28**-75b.
— (style in book plates) **4**-231d.
Urna (measure) **28**-485d.
Urnach, Bal. **14**-376 (B6).
Urnäsch, Switz. **26**-242 (G2); **2**-220c.
—, riv., Switz. **26**-242 (G2); **2**-220b.
Urnat, riv., Bal. **14**-376 (B6).
Urnatella **22**-43a; **22**-42b.
Urnatopteris **20**-532d.
Urn Burial (Browne): see *Hydriotaphia*.
Urnen, Switz. **26**-242 (G2).
Urnerboden, val., Switz. **26**-242 (F3); **12**-78c.
Urnerloch, tunnel, Switz. **26**-250d; battle (1799) **11**-197c.
Urnerspiel (play) **26**-574d.
Ur-Ninâ (of Lagash) **3**-102c.
Urnoset, mt., Nor. **19**-804 (B3).
Urnula **14**-562d; **14**-561d.
Urocentrum **14**-561b.
Urochaeta **5**-795b.
Urochloralic acid **6**-254a.
Urochorda **28**-1033c. *See also* Tunicata.
Urochroma **17**-70c.
Urochs: *see* Aurochs.
Urocissa **2**-747c.
Urocoel **2**-292c.
Urocordylidae **3**-523b.
Urocricetus **23**-442b.
Uroctea **2**-306d.
Urocteidae **2**-306d.
Urocyclus **11**-526b.
Urocyon **5**-371d.
— cinereo-argentatus: *see* Grey fox.
Urocyst **26**-411d.
Urodacus **2**-303d.
Urodaeum **23**-167d.
Urodela: *see* Caudata.
Ur of the Chaldees: *see* Ur, Babyl.
Urogalba **15**-105c.
Urogale **27**-235d; **14**-639c.
Urogiena **10**-467a; **10**-464d (fig.).
Urola, riv., Sp. **25**-530 (D1); **12**-698c.
Uroleptes: *see* Tamandua ant-eater.
Uromastix **16**-824c; **23**-156b; **23**-169a.
Uromyces **11**-335d.
— caryophillinus **5**-363b.
— erythronii **16**-688c.
— pisi **11**-343a; **21**-756c.
Uromys **23**-443b.
Uronemidae **26**-543a.
Uronemus **5**-311d.
Uropeltidae **25**-289a; **25**-288b.
Uropeltis **25**-289b.
Uropetala **8**-470d.
Urophlyctis **11**-338b.
Uroplates **16**-824b; **23**-156a; **23**-156c.
Uroplatidae **16**-824b.
Uropod **7**-556c.
Uropsilus **18**-660c; **6**-170c.
— soricipes **14**-641b.
Uropygi **2**-305c; **21**-37d; **2**-299b.
Uropygial gland (birds) **25**-189c.
Urosalpinx **11**-517a.
Urosh I. (of Servia) **24**-691d.
— II. **24**-692a.
Urospora **12**-560c; **12**-559a; spore **12**-560b (fig.).
Urosporidae **12**-560c.
Urosporidium **9**-389a.
Urotheca **23**-175a; **25**-290a.
Urotragus: *see* Goral.
Urotricha (Arachnida) **2**-299b; **2**-305c.
Urotrichus (mammal) **14**-641b; **18**-660c.
UROTROPIN **27**-801b; **10**-667c; **4**-28a; gout **12**-291c.
Ur-quamata: *see* Marsupial mole.
Urquhart, Alexander Seton, baron: *see* Dunfermline, 1st earl of.
—, **DAVID** **27**-801c; **17**-809a.
—, **SIR THOMAS** **27**-801d; **9**-626d.
Urquhart, bay, Scot. **14**-719d.
—, castle, Scot. **24**-412 (D2); **14**-721b; siege (1303) **14**-719c.
—, glen, Scot. **14**-720a.
— and Logie Wester, Scot. **4**-23c.
Urquiza, J. J. de **2**-470d; **23**-724b; **20**-766c.
Urr, Scot. **24**-412 (E5).
—, lake, Scot. **24**-412 (E4); **8**-663b.
—, riv., Scot. **15**-831d.
Urra, Yorks. **9**-412 (I. F4).
Urraca (queen of Castile) **25**-544b; **22**-140a; **24**-57b; **25**-571b (table).
Urracas, isl., Pac.O. **20**-436 (D2); **17**-707d.
Urradhus law **4**-488a.
Urray, Scot. **4**-23b; **23**-742d.
Urr-Chang, China **15**-156 (F4).
Urrelauquen, lake, Arg. **20**-657d.
Urrobi, riv., Sp. **23**-689c.
Ursulli, Br.E.Af. **25**-379 (B5); **4**-601 (C1).
Urr Water, riv., Scot. **24**-412 (E5). *See also* Rough, firth.
Urry, Sir John: *see* Hurry.
Ursa, Ill. **14**-304 (A3).
Ursa (astron.): *see* Ursa Major.
Ursacius (Arian ecclesiastic) **13**-458d.
Ursae Minoris, α (astron.): *see* Polaris.
URSA MAJOR (astron.) **27**-802b; **7**-12 (map); **25**-787c.
— **MINOR** (astron.) **27**-802c; **7**-12 (map); **19**-285b.
Urschel (myth.): *see* Frigg.
Ursel (myth.): *see* Frigg.
Ursel (of Baliol) **1**-722c.
Ursel, Belg. **3**-668 (C1).
—, Ober, Ger.: *see* Ober Ursel.
Urseren, riv., Switz. **27**-795d.
—, val., Switz. **26**-242 (F3); **26**-250d.
Ursh, Arab.: *see* Arsh.
Ursha, Turk. **27**-426 (E3).
Urshi, Rum. **23**-826 (B2).
Ursidae: *see* Bear.
Ursien group (geol.) **25**-709c.
Ursina, Pa. **21**-106 (D6).
Ursine, Nev. **5**-8 (F3).
Ursine dasyure: *see* Tasmanian devil.
Ursins, Juvenal des **11**-121b.
—, **MARIE ANNE DE LA Tremoille**, princesse des **27**-802c; **25**-552d.
Ursinus, Benjamin **16**-873d.
—, **ZACHARIAS** **27**-803b.
— (African monk) **3**-366a.
— (pseud.): *see* Farel, Guillaume.
— (antiquarian) **14**-630b.
Ursinus College, Pa. **23**-24d.
Ursion (Frankish noble) **12**-730c.
Urs-Khokh, mt., Cauc.: *see* Kasbek.
Urskog, Nor. **19**-804 (D3).
Urso, Sp.: *see* Osuna.
Urson **23**-444b.
URSULA, ST **27**-803b; **23**-60c.
Ursula, Ark. **2**-552 (A2).
Ursula, mt., Aus. **5**-336d.
Ursula Aguir de Valenza **25**-918c.
Ursulei, Sard. **15**-4 (B4).
Ursuline Convent, Quebec **22**-728a.
URSULINES (religious order) **27**-804d.
Ursus **5**-372b; sectorial tooth **5**-367b.
— americanus: *see* Black bear (North American).
— arctus: *see* Brown bear.
— arctus horribilis: *see* Grizzly bear.
— arvernensis **21**-848b.
— fossilis **11**-939a.
— japonicus: *see* Black bear (of Japan).
— labiatus: *see* Sloth bear.
— malayanus: *see* Bruang.
— maritimus: *see* Polar bear.
— nasutus **27**-989c.
— ornatus: *see* Spectacled bear.
— priscus **3**-575a.
— pruinosus: *see* Tibet bear.
— spelaeus: *see* Cave bear.
— tibetanus (torquatus): *see* Black bear (Himalayan).
"Ur Svenska hjertano" (anthem, Sweden) **19**-266c.

Ursvik, Swed. **25**-935 (A1).
—, fjord, Swed. **19**-800 (E2).
URSWICK, CHRISTOPHER 27-804d.
—, Sir Thomas **27**-805a.
Urswick, Lancs. **9**-43 (II. A1); **16**-143b.
Urtak-saryk, mts., C.Asia **26**-910b.
Urtak-tau, mts., C.Asia : *see* Talas-tau.
Urtas, Pal. **9**-342b.
Urta-Yuz (race) **15**-828d.
Urtica : *see* Nettle.
— cannabina : *see* Kentucky hemp.
— pilulifera : *see* Roman nettle.
URTICACEAE 27-805a; **5**-779d.
Urticaria : *see* Nettlerash.
Urticiflorae **27**-805a.
Urticu, mt., Sard. **24**-211a.
Urtingol, riv., China **16**-100b.
Urtite **19**-384b.
Urt-murt, tribe : *see* Votiaks.
Urton, lake, N.Mex. **19**-522a.
Urtyn-nor, lake, Tib. **6**-168 (E2).
Uru, riv., Bur. **14**-376 (R7); **15**-123c.
Urua, dist., Bel.Cong. **6**-923 (D4); **3**-291a; **6**-926c.
Uruana, Venez. **27**-989 (B2).
Uruapan, Mex. **18**-318 (E4); population **18**-379c.
Uru-azagga (name) **3**-98b.
Urubamba, Peru **21**-264 (C-D4).
—, riv., Peru **1**-785 (map); **21**-264 (C3); **1**-786c.
Urubú, Braz. **4**-440 (H5).
Urubu (zool.) **4**-443d.
Urubuponga, falls, S.Am. **21**-787c.
Urucu : *see* Bixa orellana.
Urucuia, riv., Braz. **4**-440 (G6); **18**-502a; **24**-198b.
Urucury, mts., Parag. **20**-757a.
Uruguay, riv., S.Am. **2**-462 (E2); **21**-786d; **27**-805d.
URUGUAY, state, S.Am. **27**-805d; **2**-462 (map); Garibaldi **11**-466c; history **4**-458a, **4**-458d, **20**-759a; patent law **20**-910a; railways **25**-489c; trade **7**-278d, **25**-489a, **24**-872.
URUGUAYANA, Braz. **27**-808c; **4**-440 (A7).
Uru-hima, tribe **3**-358c.
Uruk, anc. kingdom: *see* Erech.
Urukh, gorge, Cauc. **5**-553d.
—, riv., Cauc. **23**-874 (II. C-D2); **5**-553d.
Uruktapi (Urukthopel), isl., Pac.O. **20**-436 (C4); **21**-66b.
Uruku (dynasty) : *see* Sisku.
Urumchi, Turkest. **6**-168 (D1); **26**-910a; **27**-471a; sulphur **27**-424a; trade **27**-421d.
Urumea, riv., Sp. **12**-698c; **24**-155c.
Urumiah, Pers. : *see* Urmia.
Urumtsi, Turkest. : *see* Urumchi.
Urumush (ruler of Kis) **3**-112c; **3**-103a; **19**-707c.
Urundaiti, mt., Bol. **4**-167 (C3).
Urunday **27**-806b; **2**-463c; **20**-758b.
Urundi, dist., Ger.E.Af. : *see* Burundi.
Urungu, riv., China **27**-420 (G3); **27**-471c.
Urup, isl., Jap. **15**-156 (R4); **15**-951d.
—, riv., Cauc. **23**-874 (II. B1); **23**-872 (F7); **15**-935a.
Uruquatas, riv., Braz. **4**-440 (D4).
Urus (Mongol khan) **18**-717d.
Urus : *see* Aurochs.
Uru-salim, Pal. : *see* Jerusalem.
Urussuhy-assu, riv., Braz. **4**-440 (H4); **21**-575a.
Urvan, riv., Russ. **26**-639b.
Urville, Dumont d' **19**-488d.
—, Jules Sébastien César Dumont d' : *see* Dumont d' Urville.
Urville, pt., N.G. **19**-487b.
Urvinum Mataurense, It. : *see* Urbino.
Urwah b. Zubair **17**-410c.
'Urwa ibn ul-Ward **2**-271c.
Ury, riv., Scot. **24**-412 (F2).
Uryankhes (Tatar race) **26**-448d.
Uryu nor, lake, China **18**-711d.
Uryupina, Russ. **23**-872 (F5); climate statistics **8**-412c; population **8**-412c.
Urzhum, Russ. **23**-872 (G4); **28**-222c.
Urziceni, Rum. **23**-826 (C2).
Urzu, Afg. : battle (1880) **25**-913b.
—, dist., Pers. **15**-756a.
Us, mts., Russ.As. **25**-11c.
—, riv., Russ.As. **25**-11a.
Us (unit of length) **28**-483d.
Usa, riv., Ger. **11**-215b.
—, riv., Russ. (Archangel) **23**-872 (I2); **21**-32d.
—, riv., Russ. (Simbirsk) **23**-872 (G5).
Usab, Babyl. : *see* Bismya.
Usagara, dist., Ger.E.Af. **11**-771 (C2); **1**-344c; **21**-300b.
Usagers **19**-737b.
Usagre, Sp. **25**-530 (B-C3); battle (1811) **25**-388c.
Usaid b. Huraith **17**-404a.
Usama b. Munkidh **9**-97d.
Usambara, dist., Ger.E.Af. **26**-396c; **11**-773c; **11**-774a.
—, mts., Ger.E.Af. **11**-771 (C2); **11**-773a; **11**-772a.
Usan, Scot. **24**-412 (F3).
Usar, saline tracts, India **3**-715b.
USAS (Hindu myth.) **27**-808d.
Usbeg (people) : *see* Uzbegs.
Usch, Ger. **11**-808 (F2).
Uschinen, val., Switz. **26**-242 (D4).
Uscocchi (sea robbers) **15**-42c.
Uscocs : *see* Uskoks.
Uscup, Turk. : *see* Usküb.
Usden : *see* Uork.
Usdiae, people **14**-757c.
Usdum, mt., Pal. **20**-602 (C6); **25**-343a; **17**-15d.
Use and disuse **10**-34a.
Used, Sp. **25**-530 (E2).
Usedom, Ger. **27**-809a.
USEDOM, isl., Ger. **27**-808d; **11**-808 (D-E1); **11**-63c.
Useguha, dist., Ger.E.Af. **11**-771 (C2); **11**-772a; **21**-300b.
Useless, bay, Arg. **2**-472 (B7).
— Harbour, inlet, W.Aus. **21**-26a.
USELIS (Usellus), Sard. **27**-809a; **15**-26 (B5).
Usenga, mt., Russ. **23**-872 (I-K5).
Userhapi : *see* Osorapis.
Usertesen : *see* Senwosri.
USES (law) **27**-809a; **27**-330d; **7**-48c; shifting or springing : *see* Shifting use *and* Springing use; wills **28**-655b.
—, Statute of (1535) **27**-331b; **22**-942d; bargain and sale under **3**-399a.
— to bar dower **8**-457c.
Us et coustumes de la mer, Les (Cleirac) **24**-535d; **14**-675c.
Usetsu, Jap. **15**-156 (K8).
Ushabti **5**-709a; **9**-55c.
USHAK, Asia M. **27**-809b; **2**-760 (C3).
Ushakovka, riv., C.As. : *see* Ida.
USHANT (Ouessant), isl., Fr. **27**-809b; **10**-778 (B3); **15**-86a; battle off (1781) **15**-725c.
—, Créac'h d' (lighthouse) **16**-649a.
Ushas (Hindu deity) **19**-139b.
Ushavadatta (Saka king) : *see* Rishabhadatta.
Ushaw College, Durham **8**-709d.
— Moor, Dur. **9**-412 (I. E3).
Ushba, mt., Cauc. **23**-874 (C2); **5**-551a.
Ushche, Serv. **24**-686 (B2).
USHER (Ussher), **JAMES 27**-809b; *Apostolical Constitutions* **2**-199b; biblical chronology **3**-871c; Christian hymns, primitive **14**-182b; creation, date **6**-314b; recusants **14**-777c.
USHER (dict.) **27**-810b.
Ushers of the royal household **17**-1b.
Ushibuka, Japan **15**-156 (F10).
Ushigome, Tokyo **26**-1048b.
Ushinish, lighthouse, Scot. **24**-412 (A2).
Ushishir, isls., Jap. **15**-156 (S3).
Ushitsa, Serv. : *see* Uzhitse.
Ushkinskaya, mts., Russ.As. **15**-645b.
Ushkub, Turk. : *see* Usküb.
Ushmunain, Egy. : *see* Eshmunain.
Ushpia : *see* Uspia.
Ushrite : *see* Rashidite.
Ushtarana, tribe : *see* Ustarana.
Ushu, Syr. **27**-549b.
—, prov., Jap. : *see* Dewa.
Ushuaia, Arg. **2**-462 (C7); **26**-965a; **26**-965b.
—, bay, Arg. **26**-965a.
Ushuri lands, Egy. **9**-26c.
Usiba, dist., Ger.E.Af. : *see* Busiba.
Usibepu (Zulu chief) **28**-1054b; **27**-574a.
Usines, canal des, Fr. **3**-404d.
Usingen, Ger. **11**-808 (II. m8).
Usinja, dist., Ger.E.Af. : *see* Businja.
Usipetes (Usipes, Usipii : tribe) **4**-940a; **16**-931c; **8**-607d; **11**-830b.
Usiri (Egyptian god) : *see* Osiris.
USK, THOMAS 27-810b.
USK, Wales **27**-810d; **9**-420 (III. B3); **18**-728b; **18**-729c.
—, Wash. **28**-354 (H1).
—, reservoir, Wales **28**-407.
USK, riv., Wales and Eng. **27**-810d; **9**-428 (V. F4); **28**-259b.
—, val., Wales **4**-484d.
Uska-Bazar, India **14**-376 (K6).
Uskadama, Turk. : *see* Adrianople.
Uskavagh, lake, Scot. **24**-412 (A2).
Uskoken Gebirge, mts., Aus. Hung. **3**-4 (D4); **5**-365d; **27**-811b.
USKOKS (refugees) **27**-810d; **18**-444d.
Usküb, Turk. (Adrianople) **27**-426 (E2).
USKUB, Turk. (Kossovo) **27**-811b; **27**-426 (B2); **23**-648 (E2).
Uskudar, Turk. As. : *see* Scutari.
Uskyut, Russ. **23**-874 (I. E4).
Uslar, Baron P.V. **5**-548a; **11**-760a; **24**-323d.
Uslar, Ger. **11**-808 (B3).
Usman, Russ. **23**-872 (E-F5).
Usnea barbata **16**-580a (fig.); **16**-580d (fig.); soredia **16**-581c (fig.).
— melaxantha **25**-710a.
Usneaceae **16**-585a.
Uso di Mare, Antonio : *see* Anthony Uso di Mare.
Usoge, Usuge : *see* Eusebius.
Usoliye (Usolie), salt-springs, Russ.As. **14**-796a.
Usolye, Russ. **23**-872 (I4); **21**-175a.
Usón, P.Is. **21**-392 (D-E4).
Uspallala (Cumbre), pass, Chil. **6**-143a.
Uspenskiy, cathedral, Moscow **18**-892a; **28**-169c.
—, monastery, Russ. **3**-229c.
Uspensky (bp.) **20**-565c; **20**-566d.
Uspia (high priest) **2**-789a.
Uspyensk, Russ. **23**-874 (I. G2).
Usque, Samuel **22**-159c.
Usquebaugh (liquor) : *see* Whisky.
Usquert, Holl. **13**-588 (D1).
Uss, riv., Ger. **9**-133b.
Ussa, riv., Russ. : *see* Usa.
Ussakhal (Mongol khan) **18**-715a.
Ussel, Fr. **10**-778 (F5).
Usselinx, William **7**-949b.
Ussery, Ark. **2**-552 (B3).
Ussher, Henry **22**-880c.
—, W.A.E. **7**-617d.
Ussoff (zoologist) **27**-379d.
U.S. Standard thread : *see* Sellers thread.
Ussuns (race) **14**-886c; **15**-944a.
Ussure, Ger.E.Af. **11**-771 (B2).
Ussuri, riv., Asia : *see* Usuri.
Ustad Ali Mahommed **15**-686d.
— Isa **1**-382b.
USTARANA, tribe **27**-811c.
Ustaritz, Fr. **10**-778 (D6).
Ustavand, lake, Nor. **19**-804 (B2).
Ust Dvinsk, Russ. **23**-879c; **15**-91a.
Ustenskaya, Russ. : *see* Onega.
Uster, Switz. **26**-242 (F2); **28**-1057c.
Usterana, tribe : *see* Ustarana.
Usteri, Johann Martin **26**-264b.
USTICA, isl., Sic. **27**-811d; **15**-4 (D5); **15**-26 (D5).
Ustilaginaceae : *see* Smut.
Ustilaginales **11**-339a; **11**-337a; **11**-344c.
Ustilago **11**-339a; **11**-344c.
— scabiosa **11**-344d.
— tritici **28**-582b.
Ust-Ilginsk, Russ.As. **25**-10 (F3).
— Kamenogorsk, Russ.As. **27**-420 (F2).
— Kiakhta, Russ.As. **15**-782d.
— Kolva, Russ. **23**-872 (I2).
— Kutsk, Russ.As. **25**-10 (F3); **25**-12b; **14**-796a.
— Maysk, Russ.As. **25**-10 (I2).
— Medvyeditsa, Russ. **23**-872 (F6); **8**-412c.
— Minsk, Russ.As. **25**-10 (C3).
Ust Narova (Hungerburg), Russ. **19**-243a.
— Nyem, Russ. **23**-872 (H-I3).
Ustrialov, N. **23**-918b.
Ustrogotthus (Gepidacan leader) **16**-932d.
Ustron, Aus. **25**-92c.
Ust Samara, fort, Russ. **19**-841b.
— Stryelka, Russ.As. **25**-10 (H3).
— Sysolsk, Russ. **23**-872 (H3); **28**-197a.
— Tsylma, Russ. **23**-872 (H2).
— Uisk, Russ. **27**-415a.
Ustulina **11**-334c.
Ustun-tagh, mts., C.Asia : *see* Altyn-tagh.
Ust Unya, Russ. **23**-872 (I3).
— Urt, plateau, Russ.As. **27**-420 (B4-3); **23**-872 (I7-6); **27**-787d; **5**-453a; **27**-786d.
— Usa, Russ. **23**-872 (I2).
Ustya, riv., Russ. **23**-872 (F3).
Ust-Yansk, Russ.As. **25**-10 (I-K1); **28**-899a.
Ustyanskaya, Russ. : *see* Onega.
Ust Yazhsk, Russ. **23**-872 (F3).
USTYUG VELIKIY, Russ. **27**-811d; **23**-872 (F-G3).
Ustyuzhna, Russ. **23**-872 (E4).
Usu, mt., Jap. **15**-156 (M5).
Usu : *see* Palaetyrus.
Usual covenant **16**-156d.
Usuard (French monk) **17**-805b.
Usucapion **23**-542d; defective titles **23**-557a; changes under Justinian **23**-574b.
Usucapio pro herede **23**-544d; **23**-534a.
Usuki, Jap. **15**-156 (G10).
Usulatan, Salv. **5**-678 (B4).
—, mt., Salv. **24**-96c.
Usumacinta, Mex. **18**-318 (H4).
—, riv., Mex. and Guat. **5**-678 (A2); **18**-318 (H4); **26**-323a; **5**-678c.
Usumbura, Ger.E.Af. **11**-771 (A1).
Usun (race) : *see* Ussuns.
Usun Hasan : *see* Uzun Hasan.
Usuniku-bori **15**-178d.
Usun Kemer, aqueduct, Constantinople **2**-244b.
Usupamo, mts., Venez. **27**-989 (C2).
Usura maritima : *see* Foenus nauticum.
Usuri, dist., Russ.As. : *see* Maritime Province.
—, riv., Russ.As. **25**-10 (I4); **17**-553 (E3).
—, South, prov., Russ.As. : *see* South Usuri.
USURY (law) **27**-811d; **18**-708d; **14**-684d.
Usus **17**-754b; **23**-531c; **23**-616a; **24**-706b.
Ususmaris, Antoniotto : *see* Anthony Uso di Mare.
Usutu, riv., S.Af. **25**-466 (K6).
Usutu (Cetywayo party, Zu.) **28**-1054c.
Usye, Serv. **24**-686 (C1).
Ut, tribe : *see* Votiaks.
Uta, Sard. **24**-215c.
Uta (zool.) **16**-825a.
— (Japanese poetry) **15**-169a.
— awase **15**-169b.
Utah, lake, Utah **27**-814 (C2); **12**-398b.
UTAH, state, U.S. **27**-813b; **27**-814 (map); agriculture **27**-814c, **10**-656b; climate **27**-814a; commerce and industries **27**-815d; communications **27**-816a; Compromise Measures (1850) **6**-814a; constitution and government **27**-816c, **20**-980a; education **27**-817d, **27**-818a; fauna **27**-633d; finance **27**-818b; history **27**-818b; marriage law **17**-758c; minerals **27**-643c, **27**-642a, **26**-61c; newspapers **19**-572c; population **27**-816b; university **27**-818a.
"Utah" (warship) **24**-901c.
Utah, tribe : *see* Ute.
— Co., Utah **27**-814 (C2).
Utahite **27**-921d; **14**-799a.
Utahlite **27**-921d.
Utahville, Pa. **21**-106 (F4).
Utak, Afg. **14**-376 (B4).
Utakamand, India : *see* Ootacamund.
Utal, Bal. **14**-376 (B7).
Utamania : *see* Razor-bill (Alca torda).
UTAMARO (artist) **27**-819b; **15**-176a.
Utanghan, riv., India : *see* Banganga.
Utaradit, Siam **14**-498 (B3).
Utatur group **7**-416d; **7**-418a.
Utcester, Staffs. : *see* Uttoxeter.
Utchkilissa, monastery, Cauc. : *see* Echmiadzin.
Ute, Ia. **14**-732 (B2).
—, mt., N.Mex. **19**-520 (E1).
—, pass, Colo. **6**-722 (D2).
UTE, tribe **27**-819c; **14**-465b; **6**-722c.
Ute (zool.) **25**-719c; **25**-722c.
— syconoides **25**-725d (fig.).
Ute Creek, riv., N.Mex. **19**-520 (G2).
— Indian Reservation, Southern, Colo. : *see* Southern Ute Indian Reservation.
Uten **28**-484d.
Ute Park, N.Mex. **19**-520 (E1).
Uteriporus **21**-712a.
Uterus **23**-132b; **23**-134a; bicornopsis **23**-135b; bipartitus **23**-135b; diseases **12**-765c; ergot **9**-738a; inflammation, *see* Endometritis; masculinus **23**-134a; X rays **28**-889b.
Uther (Uther-Pendragon) **18**-170c; **8**-467c; **25**-961a; **2**-682a.
Uthin, Ger. : *see* Eutin.
Uthina, Tun. : *see* Wadna.
Uthrē (Mandaean philosophy) **17**-555c; **17**-556a.
—, Father of the : *see* Abāthur.
Uthyr : *see* Uther.
Utians, tribe **18**-21a; **21**-253b.
Utica, Ga. **11**-702 (C4).
—, Ill. **14**-304 (D2).
—, Ind. **14**-422 (F8).
—, Kan. **15**-654 (B2).
—, Ky. **15**-740 (A3).
—, Mich. **18**-372 (G2).
—, Minn. **18**-550 (E-F7).
—, Miss. **18**-600(B3).
—, Mo. **18**-608 (C2).
—, Mont. **14**-276 (D2); **18**-754b.
—, Neb. **19**-324 (G4).
UTICA, N.Y. **27**-820b; **19**-596 (E2); **19**-570c; **23**-685a.
—, O. **20**-26 (F4).
—, Okla. **20**-58 (E4).
—, Pa. **21**-106 (C3).
—, S.Dak. **25**-506 (H5).
UTICA, Tun. **27**-819c; **23**-648 (C3); **24**-406a; **5**-428a.
—, plain, N.Af. : *see* Sukhara.
— group (geol.) **20**-236d; **27**-625d.
Uticensis, Sinus, gulf, Tun. : *see* Tunis, gulf of.
Utiel, Sp. **25**-530 (E3).
Utiesenovic, György : *see* Martinuzzi, George.
Utii (tribal name) : *see* Utians.
Utilis actio **23**-567c.
— fictitia actio **23**-567c.
UTILITARIANISM 27-820d; **9**-835b; Austin **15**-572c; Bacon's influence **3**-151a; Bentham **27**-820d, **3**-748d; Comte **6**-821b; Cumberland **27**-821a, **7**-621d, **9**-829a; economics **8**-905c; hedonism **13**-198a; Hutcheson **14**-11a; Mandeville **17**-560b; *Protagoras* **21**-812a; Sidgwick **27**-822b, **25**-39c; Spencer **27**-822c, **9**-841b; Wollaston **9**-831c.
Utilitarianism (J. S. Mill) **27**-822a; **18**-457b.
Utility (econ.) **27**-867d; **28**-437c; **28**-437d; marginal **27**-868c.
Utilla, isl., C.Am. **5**-678 (C2).
Utinensis, Codex **4**-505c.
Utirik, isls., Pac.O. **20**-436 (G3).
Utis, riv., It. : *see* Montone.
Utkinton, Ches. **9**-416 (II. B3).
Utla, riv., Nor. **19**-804 (B2).
Utlängan, isl., Swed. **26**-190 (C-D3).
Ut liberae sunt electiones totius Angliae (charter, 1214) **6**-913a.
Utlyuk, bay, Russ. **23**-874 (I. E3).
UTMAN KHEL, tribe **27**-822d; **8**-694c.
Utmanzais, tribe **28**-947d; **18**-649b.
Ut-Napishtim (myth.) **7**-976d foll.; **12**-18d; **12**-19c; **19**-708d.
Uto (goddess) : *see* Buto.
Utö, isl., Swed. **26**-190 (E2); **21**-285a; **27**-104b.
Utopia, Tex. **26**-690 (H6).
UTOPIA (ideal commonwealth) **27**-823a.
Utopia (Sir Thomas More) **18**-825c; **9**-617b; **6**-792a.
Utraquists **14**-7d; **4**-125d foll.; **21**-684b; writings **4**-133c.
UTRECHT, Holl. **27**-824d; **13**-588 (C2); **12**-613c; cathedral **27**-825a, **2**-408a; geology **13**-590b; history **27**-825c;

Jansenist Church **20**-67d: *see also* Jansenist Church; observatory **19**-959b; prince bishopric **12**-613c, **8**-574b, **27**-823d; religion affected by Union **22**-288d; university library **16**-575d.
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—, dist., S.Af. **27**-823b; **28**-1053a.
UTRECHT, prov., Holl. **27**-823b; **13**-588 (C2); **11**-834 (hist. map).
Utrecht Psalter (9th cent. MS.) **12**-704a; **23**-765d; **20**-571c; drawings **14**-315c; musical instruments illustrated **6**-400b.
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—, Union of (1579) **13**-609c; **19**-420c.
— velvet **28**-442b.
UTRERA, Sp. **27**-827c; **25**-530 (C4).
Utria, pt., Colom. **6**-701 (A3).
Utricle (bot.) **11**-256d.
— of vestibule (phys.) **13**-124a; **9**-723a.
Utricularia **14**-644c; **16**-326d.
— vulgaris: *see* Bladderwort.
Utriculus masculinus **23**-130d.
Utrillas, Sp. **1**-505c.
Utsaladdy, Wash. **28**-354 (C1).
Utsire, isl., Nor. **19**-804 (A3).
Utsishima, isl., Jap.: *see* Hekurashima.
Utstein, Nor. **19**-803d.
Utsuken: *see* Ujughen.
Utsunomiya, Jap. **15**-156 (L-M8); **15**-211b.
Uttak, mts., Arg. **2**-462 (C5).
Uttamapalaiyam, India **14**-382 (G15).
Uttanapad (myth.) **19**-142d.
Uttara Mimansa: *see* Vedanta.
Uttarapatha (N. India) **14**-623b.
Uttarayana (chronol.) **13**-493a.
UTTARPARA, India **27**-827d.
Utter barrister **3**-438a; **24**-672c.
Utterby, Lincs. **9**-416 (II. G3).
UTTOXETER, Staffs. **27**-827d; **9**-416 (II. D4).
Uttwil, Switz. **26**-242 (G1).
Utuado, P.R. **22**-124 (A1).
Utumbuwe, riv., N.G. **19**-487 (C2).
Utungun, N.S.W. **19**-538 (G2).
Utus, anc. riv., Moesia: *see* Vid.
Utva, riv., Russ.As. **27**-420 (A2); **23**-872 (H5).
Utvängstorp, Swed. **26**-190 (J2).
Utvik, Nor. **19**-804 (B2).
Utyuala **19**-255c.
Utzschneider, Joseph von **12**-88a; **23**-49a.
UU **28**-223a.
Uva, Wyo. **28**-874 (H3).
—, lake, Colom. **6**-701 (C4).
—, prov., Cey. **14**-382 (M-N16 and I16); **5**-780d; **5**-782a.
—, riv., Colom. **6**-701 (C4).
Uvalde, Tex. **26**-690 (H6).
— Co., Tex. **26**-690 (H6).
Uvarazmiya: *see under* Khwarizm, Asia.
Uvarov, S. S., count **11**-471a.
Uvarovite **11**-470a; **11**-471a.
Uvasaga Dasao (Jain book) **15**-127d.
Uvats, riv., Balkan Penin. **24**-686 (A2).
Uvea, isl., Loyalty Is., Pac.O. *see* Uea.
— (Uea), isl., Wallis Arch., Pac.O. **20**-436 (H6).
Uvedale, Robert **9**-403c.
Uvelka, riv., Russ. **23**-872 (K5).
Uvero, pt., P.R. **22**-124 (B1).
Uvimbi, Ger.E.Af. **11**-771 (B2).
Uviol glass **16**-670a.
Uvira, Bel.Cong. **6**-923 (E3).
—, dist., Bel.Cong. **6**-926c.
Uvita, isl., Caribbean S. **16**-700a.
Uvitic acid **6**-54b; **21**-546a.
Uvkusigsat, fjord, Green. **12**-543 (D3); **12**-544d.
Uvula (brain) **4**-394c.
— (pharynx) **21**-359c; **17**-524c; **21**-462c.
Uvuma, isl., Victoria Nyanza, Af.: *see* Buvuma.
Uvyek, Russ.: *see* Ukek.
Uwaja, anc. country: *see* Elam.
Uwajima, Jap. **15**-156 (H10).
Uwchland, Pa. **21**-106 (I7).
Uwharie, N.C. **19**-772 (C2).
Uxacona, Brit.: *see* Oakengates.
Uxbridge, Henry William Paget, 2nd earl of: *see* Anglesey, 1st marquis of.
Uxbridge, Mass. **17**-852 (D2).
UXBRIDGE, Mdx. **27**-828a; **16**-942 (B2); **18**-413c; **11**-266a; treaty **12**-411b.
— Road, Lond. **16**-938 (A2).
Uxelles, Nicolas du Blé, marquis d' **12**-343c; **3**-484a.
Uxellodunum, Fr. (Indre): *see* Issoudun.
—, Fr. (Lot): *see* Puy d'Issolu.
—, fort, Cumb. **17**-833c.
Uxii, tribe: *see* Oxii.
UXMAL, Mex. **27**-828b; **18**-318 (H3); **1**-815a; **5**-678b.
Uyak, Alsk. **1**-472 (G4).
Uyea, isl., Scot. **24**-412 (G1); **24**-855b.
Uyeno (Ueno), Tokyo **26**-1048b.
Uyesugi Kenshin **15**-207d.
Uylenborch, Saskia van: *see* Saskia van Uylenborch.
Uylenspiegel (Belgian periodical) **23**-718d.
Uys, Piet **19**-258b; **28**-1053d; **27**-197b.
Uyu, riv., Bur. **4**-840 (D2).
Uyuni, Bol. **4**-167 (B4); **4**-171d.
Uyun ul Akhbar (Ibn Qutaiba) **14**-223a; **2**-272d.
Uyun Urghush, mt., Syr. **16**-346d.
UZ, JOHANN PETER **27**-828d; **8**-203d.
UZ, anc. country, Asia **27**-829a.
—, pass, Hung. **27**-212b.
Uza, Fr. **10**-778 (D5).
—, riv., Russ. **23**-872 (G5).
Uzal (bibl.) **24**-125d.
Uzalis, Tun. **1**-359b.
Uzbeg Khan (khan of Golden Horde) **12**-209c; **18**-717c.
Uzbegs (race) **27**-421d; **27**-469c; **27**-472a; **18**-719b; Abbas I. (of Persia) **1**-10b; Aurangzeb **2**-923a; Baber **3**-92d; Badakshan **3**-183a; Bokhara **4**-156d; Kain **15**-635b; Khiva **15**-778a; Oxus valley **20**-422c; Russian empire **23**-874b.
Uzboĭ, depression, Russ.As. **27**-171b; **5**-454b.
—, riv., Russ.As. **27**-420 (B4).
Uzeda, Duke of: *see* Uceda.
Uzeda, castle, Sp. **1**-773d.
Uzège, anc. diocese, Fr.: *see* Uzès.
Uzel, Fr. **10**-778 (C3).
Uzen, Great, riv., Russ.: *see* Great Uzen.
—, Little, riv., Russ.: *see* Little Uzen.
Uzentum, It. **15**-26 (F-G5); **18**-189c.
Uzerche, Fr. **10**-778 (E5); **7**-196c.
Uzès, Marie Magdeleine **16**-289c.
UZES, Fr. **27**-829b; **10**-778 (G5); **10**-802 (map).
Uzes, tribe **6**-992c; **15**-775c.
Uzeste, Fr. **12**-49b.
UZHITSE (Uzice, Ushitsa), Serv. **27**-829b; **24**-686 (A2).
—, dept., Serv. **24**-686 (A2).
Uzi, riv., Russ.: *see* Dnieper.
Uzice, Serv.: *see* Uzhitse.
Uznach, Switz. **26**-242 (G2).
Uzsok, Hung. **3**-4 (H2).
Uzu, Af.: *see* Palaetyrus.
—, riv., Rum. **23**-826 (C1).
—, riv., Russ.: *see* Dnieper.
Uzun Hasan (Ak Kuyunlı, ruler) **21**-228b; **9**-103a; **3**-198b.
Uzunja, cape, Turk. **27**-426 (F3).
Uzunjaburj, Asia M.: *see* Olba.
Uzun-kul, lake, Turkest. **27**-420 (D3).
Uzuns (race): *see* Ussuns.
Uzun-shor, lake, Turkest. **6**-168 (D2); **15**-940a.
Uzuntyar, Cauc. **23**-874 (II. D3).
Uzun Yaila, dist., Turk.As. **2**-760 (G3); **2**-758b.
Uzza, al (myth.) **17**-403c; **9**-896c.
Uzzanesopholis, Mesop.: *see* Auzara.
Uzzano, Niccolò da **18**-32a.
Uzz, el, Mesop.: *see* Alus.
Uzzell, Ark. **2**-552 (D3).
UZZIAH (king of Judah) **27**-829c; **14**-862c; **15**-313c; **15**-380a.

For Key to Contractions, etc., see Page 1.

V

V (letter) **27**-830a; **3**-87b; brand **4**-427d; old printing and Latin inscriptions **3**-909b, **27**-553a; relation to W **28**-223a.
— (chem.): *see* Vanadium.
— (numeral) **19**-867a; **27**-830a.
V.A. (abbrev.) **15**-861d.
Va. (abbrev.): *see* Virginia.
Vaage, Nor. **19**-804 (B3).
Vaagen, Nor. (Gudbrandsdal) **12**-667c.
—, Nor. (Ost-Vaago): *see* Kabelvaag.
—, harb., Nor. **3**-772c.
Vaagö, isl., Faeroe Is. **9**-908 (E3); **10**-123d.
Vaagsfjord, fjord, Nor. **19**-800 (D1); **16**-863a.
Vaagsö, Nor. **19**-804 (A1).
—, isl., Nor. **19**-804 (A2).
VAAL, riv., S.Af. **27**-830b; **25**-466 (F-G7); Drifts question **5**-244b; **27**-200b.
Vaaler, Nor. **19**-804 (D2).
Vaalkrantz, S.Af.: battle (1900) **27**-205d.
VAALPENS, people **27**-830c.
Vaal-rhebok: *see* Rhebok.
Vaal River series (geol.) **27**-188a; **20**-151d; **1**-324d.
Vaals, Holl. **13**-588 (C4).
Vaar, Den. **8**-24 (C1).
—, riv., Den. **8**-24 (C1).
Vaart Rhine, riv., Holl. **13**-588 (C2).
— Rhine Canal, Holl. **13**-591b.
Vaast, St: *see* Vedast.
Vaballathus: *see* Wahaballath.
Va Berg, mt., Swed. **26**-190.
Vabre, Fr. **10**-778 (F6).
Vaby, Ark. **2**-552 (D3).
Vaca, Nuñez Cabeza de: *see* Nuñez Cabeza de Vaca.
Vaca, Cu. **7**-595 (F1).
—, people **1**-329d.
Vacádas **4**-789d.
Vaca Keys, Fla. **10**-540 (E7).
Vacanae, It. **10**-729d.
Vacante sede apostolico (1904) **6**-829a.
VACARESCU (Walachian family) **27**-830d.
—, Alecu (Alexander) **27**-830d; **23**-847b.
—, Elena (Hélène Vacaresco) **27**-831a.
—, Ianache **23**-847b; **23**-846c.
—, Ioan **23**-847b.
VACARIUS (canonist) **27**-831a.
Vacas, riv., Guat. **5**-678 (A3); **12**-664c.
Vacation schools **28**-321c.
Vacaville, Cal. **5**-8 (B2).
Vacca, Vitruvius **10**-603d.
Vacca (Cava de Viriato), ruins, Port. **28**-165b.
Vaccacahy, riv., Braz. **23**-358a.
Vaccaei, tribe **16**-478d; **18**-258d; **20**-598a.
Vaccarès, lagoon, Fr. **10**-778 (G6); **5**-80b.
Vaccari (Neapolitan painters) **23**-721b.
VACCINATION **27**-831c; **15**-319b; **3**-158d; effect on epidemic **25**-247d.
— Acts **27**-833d; **22**-627c.
—, Royal Commission on (1896) **27**-832b.
Vaccine Establishment, National, Lond. **15**-320d.
— treatment **3**-171d; **20**-913d; **26**-798b; asthma **23**-198d; Malta fever **17**-515a; pemphigus **21**-83a; plague **21**-704d; pneumonia **21**-870b; pyaemia **24**-653c; septicaemia **24**-653b; typhoid fever **27**-506b; veterinary **28**-10a, **28**-11c.
Vaccinia (med.) **27**-832b.
Vacciniaceae (bot.) **9**-740a.
Vaccinium (bot.) **9**-739b; **10**-567c; **11**-259b.
— myrtillus: *see* Bilberry.
— oxycoccus: *see* Cranberry.
Vaccinium reticulatum: *see* Oheio berry.
— vitis-idaea: *see* Cowberry.
Vaccinov (Russian child) **15**-320b.
Vach: *see* Sarasuati.
Vacha, Ger. **11**-808 (III. n11).
Vache, isl., Fr.I.C. **14**-498 (E-F6).
Vacherie, La. **17**-54 (b7).
VACHEROT, ETIENNE **27**-834b; **18**-250c; **20**-89d.
Vachott, Alexander **13**-927c.
Vacoa (tree) **17**-913c.
Vacois, dist., Maur. **17**-912d.
—, lake, Maur. **17**-913a.
Vacomagi, tribe **21**-263b.
Vacovia, Ugan. **1**-504a.
Vacqueiras (Vaquières), Raimbaut of **27**-310c.
VACQUERIE, AUGUSTE **27**-834c.
Vacuna (goddess) **27**-906a.
Vacuolaria **10**-467a.
Vacuole **22**-477c; **21**-745b.
Vacuum **16**-746b; **16**-752c; air pumps **22**-646b; augmenter **25**-849a; brake **4**-416a; fan **1**-681d, **26**-39c; ventilation system **27**-1010d.
— **CLEANER** **27**-834c.
— Cleaner Co., British *v.* New Vacuum Cleaner Co. (1907) **27**-132c.
— **TUBE** **27**-834d; **9**-191d.
VACZ (Waitzen), Hung. **27**-837a; **3**-4 (F3); battle (1684) **12**-346b; battle (1849) **13**-917d.
Vada, Ga. **11**-752 (B4).
—, It. **15**-4 (C3); **15**-26 (C3).
Vadagalai (Hindu sect) **6**-943a.
Vadakara, India: *see* Badagara.
Vada Sabatia, It. **15**-26 (B2); **1**-256d.
Vaddhamana: *see* Mahavira.
Väddö, Swed. **26**-190 (E2).
VADE-MECUM (dict.) **27**-837b.
Vaden, Ark. **2**-552 (C4).
Väderö, fjord, Swed. **26**-190 (A2).
—, isl., Swed. **26**-190 (A2).
Vadheim, Nor. **19**-804 (A2); **25**-345c.
Vadi, India: *see* Sawantwari.
Vadiatio legis: *see* Wager of law.
Vadier, M. G. A. **3**-94a; **26**-791d.
Vadimonian Lake, It.: battle (310 B.C.) **23**-625d; **4**-139c.
Vadimonium (Rom. law) **23**-545c.
Vadi paksha: *see* Krishna paksha.
Vadis, W.Va. **28**-560 (C2).
Vadium (bailment) **3**-221a.
Vadmal (cloth) **14**-231a; **16**-204d.
Vadnay, Charles **13**-928c.
Vadner, Colo. **6**-722 (D4).
Vado, It. **15**-4 (B2); **11**-184d; **15**-21d.
—, Sp. **25**-10 (D2).
— Ancho, Guat. **5**-678 (A3).
Vadomsk, Russ.As. **25**-10 (G3).
Vadret, Gross Piz, mt., Alps: *see* Gross Piz Vadret.
Vadsbro, Swed. **26**-190 (D2).
Vadsö, Nor. **19**-800 (G1).
Vadstena, Swed. **26**-190 (C2); **26**-193a; **4**-557c; pendant from **1**-728 (Plate).
Vadu-Dobri, Hung. **3**-4 (H4).
Vaduz, Liechtenstein **3**-4 (A3); **16**-592d.
Vaea, mt., Samoa **25**-909c.
Vaejovis **2**-303d.
Vaenius, Otto **23**-804c.
Vaerings, people **28**-65c.
Vaermofos, waterfall, Nor. **23**-688c.
Vaerö, Nor. **19**-800 (C2).
—, isl., Nor. **19**-804 (A2).
Vaerum, Den. **8**-24 (C2).
Vae victis **4**-496a.
Vafos, waterfall, Nor. **26**-542a.
Vag, riv., Hung.: *see* Waag.
Vaga, Perino del: *see* Perino del Vaga.
Vaga, N.Af.: *see* Beja.
—, riv., Russ. **23**-872 (F3); **28**-197a.
Vagabond: *see* Vagrancy.
Vagabonds (of Cévennes): *see* Camisards.
Vagans (mus.) **19**-76a.
Vagaries of Merry Andrew, The **17**-723c.
Vagarshapat, Cauc. **23**-874 (II. C-D3); **8**-883c; **9**-748b; Gregory's vision **12**-566a.
Vaggeryd, Swed. **26**-190 (B-C3).
Vagharshag: *see* Valarsaces.
Vaghela (dynasty) **4**-189a.
Vaghin (Russian explorer) **19**-537b.
Vagienna, tribe **2**-905c.
Vagina (anat.) **23**-132d; **23**-134a; bacillus **12**-765c; discharges and diseases **12**-765a, **16**-320a.
— (bot.): *see* Leaf-sheath.
Vaginatus limestone **20**-236d.
Vaginicola **14**-561c.
Vaginicolinae **14**-561c.
Vaginitis **12**-765c.
Vaginula **11**-513d; **11**-517c; **11**-526d.
— depressa **17**-508a.
Vaginulidae **11**-526d.
Vagliano *v.* Bank of England (1891) **3**-351b; **4**-342c.
Vagmaer trachypterus: *see* Deal-fish.
Vagnas: battle (1703) **5**-562a.
Vagos, Port. **25**-530 (A2).
VAGRANCY (law) **27**-837b; **5**-889d; actors **26**-737a; Acts **7**-190a, **8**-56c; ancient Greece **5**-862b; branding **4**-427d; committee (1904) **27**-838a; whipping **28**-590d.
Vagre, riv., Venez. **20**-276a.
Vagri, tribe **21**-902a.
Vague year (Egyptian) **4**-988d.
Vág-Ujhely (Waag-Neustadtl), Hung. **3**-4 (E2).
Vagus nerve **19**-396b; **23**-188b; action **27**-936d; of fishes **14**-267b; origin **27**-1049a.
Vahagn: *see* Wahagn.
Vahea: *see* Landolphia.
Vahon-Jamkar-la (Wehon-la), pass, Tib. **6**-168 (F2); **26**-924c.
Vahot, Emeric **13**-928a.
Vahram (chronicler) **2**-574a.
Vahriz (Persian general) **6**-272a.
Vahterpää, riv., Fin. **23**-872 (B7).
Vahuburz (of Persis) **21**-254a.
Vai, tribe, Af. **17**-564c; **16**-542a; language **19**-346b, **13**-70a.
Vaiceshika (philosopher) **8**-271b.
Vaico, East, riv., Fr.I.C. **14**-498 (D-E6); **6**-620c.
Vaidarbhi **17**-671d.
Vaiden, Miss. **18**-600 (C2).
Vaidyas (caste) **5**-467d; **13**-504b.
Vaigach, isl., Arct.: *see* Vaygach.
Vaigai, riv., India, **14**-382 (H15); **14**-851d.
Vaihinger, Hans **18**-237b.
Vaijayanti, India: *see* Banawasi.
Vaikkam, India **14**-382 (F-G15).
Vaikuntha: *see* Vishnu.
Vaikuntha Perumal, temple, India **6**-943a.
Vail, Ariz. **2**-544 (C3).
—, Ia. **14**-732 (B2).
—, Pa. **21**-106 (F4).
Vaila, isl., Scot. **24**-855b.
Vailima, Samoa **25**-909a.
Vailima Letters (R. L. Stevenson) **25**-909b.
Vaillant, J. B. **24**-193b.
Vaillant, J. B. P. **15**-56b.
—, L. **3**-69d; **14**-249b.
—, Sébastien **16**-732d.
—, Vallerant **18**-352c.
— (French anarchist) **8**-690c.
Vailly, Fr. **10**-778 (F3).
— sur-Sauldre, Fr. **10**-778 (F4).
Vailoa, Samoa **20**-436 (O8).
Vail the bonnet **4**-212a.
Vainor, Wales: *see* Vaynor.
Vaipar, India **14**-382 (H15).
—, riv., India **14**-382 (H15).
Vaipulya (Buddhism) **15**-223a.
Vair, Guillaume du **11**-126c.
Vair, mt., Scot. **2**-222d.
Vair (her.) **13**-323c; potent **13**-318d.
Vairagi (Hindu sect) **13**-509c; **27**-368d.
Vairisinha II. (of Malwa) **8**-142d.
Vairocana (Buddhism) **15**-223a.
— (statue of Buddha): *see* Daibutsu.
Vair Palfroi, Le **11**-114d.
Vaisakha (Nija Vaisakha) **13**-492d; **13**-494a.
Vaisali (Vesali), anc. kingdom, India **20**-631d.
Vaisampayana (Indian sage) **24**-164c.
Vaisava (princess of Servia) **24**-287c.
Vaise, Lyons **17**-174c.
Vaiseshika (Hindu philos.) **24**-179a.
Vaishnava (Hinduism) **13**-506b; **13**-511a; **24**-178c; in Central India **5**-681b; inscriptions **14**-621d; literature **13**-485b, **26**-390d.
Vaishya Thakuri, dynasty, Nepal **19**-381c.
VAISON (Vasio), Fr. **27**-838d; **10**-778 (G5); councils of **6**-491c, **8**-461c, **16**-782c.
Vaissète, Dominique Joseph **18**-668a; **26**-598d.
Vaisvadeva (Brahmanism) **4**-384b.
Vaisya (Hindu caste) **13**-502d; **14**-396b; **4**-382b.
Vaitarna, riv., India **14**-382 (E10); **26**-725b.
Vaitupu, isl., Pac.O. **20**-436 (G-H5).
Vajasaneya (Brahmanism) **24**-165a; **4**-379d.
Vajda, John **13**-927c.
—, Peter **13**-927d.
—, Victor **13**-928b.
Vajda Hunyad, Hung. **3**-4 (H4).
Vajkay, Charles **13**-928c.
Vajolet, pass, Alps **1**-747c.
Vajoletthurm, mt., Alps **1**-747b.
Vajra (Lamaism) **16**-531a.
Vakadu, India **14**-382 (I12).
Vakanski Vrh, mt., Croat.-Slav. **3**-4 (D4); **7**-772c.
Vakarel, Bulg. **4**-773 (A2); **4**-776b.
Vakh, riv., Russ.As. **25**-10 (C-D2); **19**-944b.
Vakhan, dist., Russ.As.: *see* Wakhan.
—, mts., Russ.As. **5**-547b.
Vakhsh (Kizil-Su), riv., C.As. **27**-420 (D4); **20**-421b; valley of the **27**-420a.
Vakhtang I. (of Georgia) **11**-759a; **26**-967a.
— VI. **11**-759d; **26**-967b.
Vakinankaratra, dist., Mad. **17**-271 (B3); **17**-270d; **17**-272a.
Vakpati (author) **22**-254a.
Vaksdal, Nor. **19**-804 (A2).
Vakuf **27**-441d; **4**-280d; **12**-434b; in Egypt **9**-29d.
Vakuf, Dolnji, Bosn.: *see* Dolnji-Vakuf.
—, Varcar, Bosn.: *see* Varcar-Vakuf.
Val, François Pyrard de la **17**-486c.
Val, Belg.: battle (1747): *see* Lauffeld.
—, riv., Nor. **19**-800 (F1).
Vala, India **14**-382 (D9).
—, riv., Russ. **23**-872 (H4).
—, race, India **15**-695d.
Valaam, isl., Russ.: *see* Valamo.
Valabhi, anc. kingdom, India **14**-622a; **14**-625c.
—, dynasty **4**-188d.
— era, India: *see* Gupta era.
Valachides (Gr. Mahommedans) **17**-218a.
Valadon (conjurer) **6**-950a.
VALAIS, canton, Switz. **27**-839a; **26**-242 (C-D4); referendum in **23**-1d.
Valambrosa, Ga. **11**-752 (C3).
Valamo, isl., Russ. **16**-61b.
Valangian group (geol.) **7**-416a; **11**-670b; **19**-372b.
Valangiman, India **14**-382 (H-I14).
Valangin, Switz. **26**-242 (B2); **19**-424a.
Valaorites, Aristotle **12**-526c.
Valaressa, Luca **8**-297c.
Valarpattanam, India: *see* Azhikal.
Valarsaces (Armenian king) **27**-878a.
Valarsh: *see* Vologaeses.
Valarshapat, Cauc.: *see* Vagarshapat.
Valatie, N.Y. **19**-596 (B1).
— Kill, riv., N.Y. **19**-596 (B1).
Valaxa, isl., Gr. **12**-24 (F2); **12**-436b.
Valbert, G. (pseud.): *see* Cherbuliez, Charles Victor.
Valbuena, Antonio **25**-588b.
Valburg, Holl. **13**-588 (C3).
Valcabrère, Fr. **13**-72c.
Valcanuta, fort, Rome **15**-4 (E1).
Valcea, dept., Rum.: *see* Ramnicu Valcea.
Valchetta, stream, It.: *see* Cremera.
Valckenaer, Lodewijk Caspar **28**-879d.
Valcour I., Lake Champlain, N.Am.: battle (1776) **5**-831b; **21**-826a.
Valcournera, pass, Alps **1**-743d.
Valdacqua, It. **6**-571b.
Valdagno, It. **15**-4 (C2).
Valdai, Russ. **23**-872 (D4).
—, plateau, Russ. **23**-872 (D4); **19**-839b; **23**-871c; **25**-277c; Dnieper **8**-349a.
Val d'Ajol, Fr. **7**-298c.
Valdal, val., Nor. **19**-804 (B1).
Valdarfer, Christopher **4**-223b.
Val d'Arno maris (geol.) **21**-847d; **20**-555b.
Val de Bagnes, Val di Diano, &c.: *see* Bagnes; Diano, &c.
Valdecaballeros, Sp. **25**-530 (C3).
Valdec de Lessart, Claude Antoine: *see* Lessart.
Val de Compar: *see* Ithaca, isl.
Valdec-Rousseau, René **28**-253b.
Val-de-Grace, church, Paris **20**-807d; **20**-818b.
Val de Loire, dist., Fr. **10**-776 (E3).
Valdelsa, pass, It.: battle (1269) **25**-50b.
Valdemaqueda, Sp. **12**-103a.
VALDEMAR I. (king of Denmark) **27**-840c; **7**-810b; **14**-563a.
— II. **27**-841a; **24**-269a; order of the Dannebrog **15**-863a; Saga of **14**-238a.
— III. **23**-212b.
— IV. **27**-842a; **8**-30b.
— (prince of Denmark, fl. 1645) **18**-359a.
— (prince of Denmark, b. 1856) **6**-278d; **4**-783c.
— (prince of Lippe) **16**-740d.
— (duke of Schleswig) **24**-336a.
— (margrave of Brandenburg-Stendal) **4**-420d.

Valdemar (Birgersson : king of Sweden) **3**-981c; **15**-502a.
" Valdemar " (train ferry) **24**-888b.
Valdemarsvik, Swed. **26**-190 (D2).
Valdemeca, Sp. **25**-530 (E2).
Valdemosa, val., Bal.Is. **17**-450d.
VALDEPENAS, Sp. **28**-843a; **25**-530 (D3).
Valderaduey, riv., Sp. **25**-530 (C2); **8**-450c.
Valderas, Sp. **25**-530 (C1).
Valderrama, P.Is. **21**-392 (C-D5).
Valders, Wis. **28**-740 (F4).
Valdés, Armando Palacio : *see* Palacio.
—, Fernando de **14**-596b; **5**-768a; **27**-746c.
— (Placido), Gabriel de la Concepción **17**-875d.
—, **JUAN DE 27**-843a, **5**-365b.
—, Juan Meléndez : *see* Meléndez Valdés, Juan.
— Leal, J. de : *see* Leal.
Val de travers (geol.) **16**-697c.
Val de Travers road-paving **23**-391d.
Valdez, Pedro de **8**-474a; **2**-560b.
Valdez, Alsk. **1**-472(I3); **1**-476c.
—, glacier, Alsk. **1**-472 (I3); **1**-473d.
—, isl., Can. **4**-600 (D3); **4**-598d.
Val di Chiana cattle **15**-10b.
Valditaro, prov., Fr. **20**-851a.
Val-di Toro (Italian family) **8**-428b.
Valdivia, Juan Gilberto **21**-269a.
—, Pedro de **6**-153c; **11**-626d.
Valdivia, Chil. **2**-462 (B4); **27**-844a; foundation **6**-153c.
VALDIVIA, prov., Chil. **27**-844a; **2**-462 (B2 and B4); **6**-150c; German settlers **6**-155a.
—, riv., Chil. **2**-462 (B4); **6**-144b.
Våldö, isl., Swed. **26**-190 (D3).
Valdobbia, pass, Alps **1**-743d.
Valdora, L. F. Menabrea, marquis of : *see* Menabrea.
Val d'Osne, Fr. **13**-73b.
VALDOSTA, Ga. **27**-844b; **11**-752 (C5).
Valdoviño, Sp. **25**-530 (A1).
Valdres, dist., Nor. **19**-804 (C2).
Vale, Ark. **2**-552 (A1).
— (Braye du Val), Chan.Is. **9**-430 (VI. A1); **12**-671d; **12**-672a.
—, Oreg. **20**-242 (H4).
—, The, val., Glos. **12**-133a.
Vale books **27**-543b.
Valecti garde (corporis) domini Regis : *see* Yeomen of the Guard.
Valée, Sylvain Charles, Marshal **1**-651c; **7**-2d; **21**-390c.
Valeene, Ind. **14**-422 (E8).
Valeggio, It. : battle (1796) **22**-784d.
Valegnani (Jesuit priest) **15**-227b.
Valegosulovo, Russ. **23**-874 (I. C3).
Valela, Gr. : *see* Elis.
Valença, Braz. (Piauhy) **21**-575b.
—, Braz. (Rio) **23**-353b.
— do Minho, Port. **25**-530 (A1); **22**-137a.
Valençay, Fr. **10**-778 (E4); **5**-344a.
Valence, Aymer de, earl of Pembroke : *see* Pembroke.
—, Aymer of (bp. of Winchester) : *see* Aymer of Valence.
—, William of : *see* William of Valence, English prince.
VALENCE, Fr. (Drôme) **27**-844b; **10**-778 (G5); **23**-648 (C2); council (529) **21**-64b; council (855) **8**-639a, **9**-743b, **12**-279b; geology **5**-778a.
—, Fr. (Gers) **10**-778 (E6).
—, Fr. (Tarn et Garonne) **10**-778 (E5).
— d'Albigeois, Fr. **10**-778 (F6).
Valencia (general) **18**-347a.
Valencia, Pa. **21**-106 (C4).
VALENCIA, Sp. **27**-845b; **25**-530 (E3); pottery of 17th century **5**-741b; riots (1905) **25**-566d.
VALENCIA, Venez. **27**-846b; **27**-989 (B1-2); **27**-990c.
—, bay, Sp. **25**-530 (F3).
—, harb., Ire. **14**-744 (A5); **27**-844d.
VALENCIA (Valentia), isl., Ire. **27**-844d; **14**-744 (A5).
— (Tacarigua), lake, Venez. **27**-989 (B1); **27**-846b.
VALENCIA, prov. and former kingdom, Sp. **27**-844d; **25**-530 (E3); **23**-648 (C3); Carlists **5**-345a, **25**-557a; Catalan language **25**-573b; Germania revolt **25**-550d; Hispano-Moresque pottery **5**-731b, **26**-973a; predial slavery **25**-545d.
— Co., N.Mex. **19**-520 (B-C3).
— **DE ALCANTARA,** Sp. **27**-846c; **25**-530 (B3); **4**-819d.
— de Don Juan, Sp. **25**-530 (C1); council (1050): *see* Covanza, Council of.
— del Cid, Sp. : *see* Valencia.
Valenciana, La, mine, Mex. **12**-649d.
Valencian dialect : *see* Catalan language.
Valenciennes, A. **5**-692b; **14**-246a; **28**-602d.
VALENCIENNES, Fr. **27**-846c; **10**-778 (F1); siege (1567) **19**-418a; siege (1677) **8**-734d; siege (1793) **11**-174b.
— lace **16**-44a; **16**-46a.
Valencinia (worms) **19**-364a foll.
VALENCY 27-847a; **6**-37d; Frankland **11**-23d; isomerism **14**-882c; partial **6**-56d.
Valeni, Rum. **23**-826 (C2).
VALENS (emperor) **27**-850a; **23**-656b; Arianism **2**-544a; medal **18**-13c.
—, Fabius **20**-366b; **28**-147b.
Valensole, Fr. **10**-778 (H6).
Valenta, Edward **2**-477c.
Valentia, viscounts : *see also* Mountnorris, earls of.
—, Arthur Annesley, viscount : *see* Anglesey, 1st earl of.
—, Arthur Annesley, 10th viscount **2**-16c.
—, **FRANCIS ANNESLEY,** viscount (1st Baron Mountnorris) **27**-850c.
Valentia, Fr. : *see* Valence.
—, It. **16**-680c.
—, Mor. : *see* Banasa.
—, Sard. **15**-26 (B5); **24**-216b.
—, isl., Ire. : *see* Valencia.
—, Rom. prov., Brit. **27**-851c.
Valentigney, Fr. **8**-441d.
Valentin, Abbé : *see* Gerberon, Gabriel.
—, Gabriel Gustav **1**-936d; **9**-326c; on taste **26**-447b; on touch **27**-96a.
Valentin, riv., Fr. **8**-839d.
Valentina (Valentina Visconti), duchess of Orleans : *see* Orleans.
VALENTINE (saints) **27**-850d.
—, (pope) : *see* Valentinus.
—, Basil **1**-861b; **4**-9c; action of yeast **10**-275b; philosopher's stone **6**-34a.
—, Benjamin **14**-30b.
—, Edward Virginius **16**-528a.
Valentine, Ind. **14**-422 (G1).
—, Neb. **19**-324 (D2); **19**-323c.
—, Tex. **26**-690 (C5).
VALENTINE AND ORSON 27-851a.
Valentine's, mt., Tas. **26**-439b.
Valentine's Day **27**-851a.
Valentine Vox, the Ventriloquist (Cockton) **6**-628c.
Valentini, palace, Rome **22**-222b.
VALENTINIAN I. (emperor) **27**-851b; **23**-655c.
— II. **27**-851d; **23**-656c; paganism **1**-798d, **2**-337a.
— III. **27**-852a; **23**-657c; fasting **10**-196c; Maximus **17**-926d; treaty with Gaiseric **11**-390c.
Valentinianean dynasty **23**-511c.
Valentinite (min.) **7**-591a.
Valentinois, Cesare Borgia, duke of : *see* Borgia, Cesare.
—, Louis II., count of **7**-851a.
VALENTINOIS (countship and duchy) **27**-852b; **7**-851a; **18**-685b; Crest former capital **7**-414b.
VALENTINUS (pope) **27**-852c.
— **AND THE VALENTINIANS 27**-852c; **12**-157b; **16**-921b; Neoplatonic views **19**-374c; Ophites **20**-128d.
— Basilius : *see* Valentine, Basil.
—, Ulpius Junius **23**-755d.
Valenton, Fr. **10**-778 (C6).
Valenza, It. **21**-588a; **3**-42d.
VALENZUELA, FERNANDO de 27-857a; **25**-552b.
Vale of Avoca, Aylesbury, &c. : *see* Avoca, Aylesbury, &c.
— press **14**-324a.
VALERA Y ALCALA GALIano, Juan 27-857b; **25**-587b.
Valera, Venez. **27**-989 (A2).
Valeria, Galeria **11**-400c; **20**-680c.
Valeria (Messallina) : *see* Messallina, Valeria.
Valeria, prov., Rom. emp. **23**-648 (D2); **20**-680c.
—, plain, It. **4**-945d.
VALERIA, road, It. **27**-858b; **15**-26 (C5); **15**-27b; Via Appia **4**-337c.
— (gens) **24**-573a.
— (lex, 300 B.C.) **8**-185c.
— Augusta, Sp. : *see* Jativa.
— Claudia, road, It. : *see* Claudia, Valeria.
— de provocatione, lex (509 B.C.) **23**-620c; **23**-536d.
Valerian, St **22**-278a.
— (emperor) : *see* Valerianus, Publius Licinius.
VALERIAN 27-858c; corolla **10**-564b; nard - producing **25**-668a.
Valerianaceae **10**-563c.
Valeriana dioica **16**-324d (fig.).
— officinalis **27**-858c.
Valerianella eriocarpa : *see* Corn-salad.
— olitoria : *see* Corn-salad.
Valerianos, Apostolos **28**-357a.
VALERIANUS, PUBLIUS LIcinius (emperor) **27**-859a.
VALERIC ACID 27-859b; **16**-64b.
Valerio-Horatian laws (449 B.C.) **23**-621b; **22**-537a.
Valerius (bp. of Saragossa) **28**-89d.
—, Corvus **21**-356b.
—, Johan David **26**-218b.
—, Julius **1**-550c.
—, **PUBLIUS** (Publicola, Poplicola) **27**-859c; law of appeal **23**-620c.
— Antias : *see* Antias, Quintus Valerius.
— Asiaticus, Publius **18**-186c.
— Cato, Publius : *see* Cato.
— Falto, Publius : *see* Falto.
— **FLACCUS, GAIUS 27**-859c; *Argonautica* **16**-265c; MSS. **21**-891a; style **16**-256d.
— Flaccus, Lucius (consul, 195 B.C.) **14**-656c.
— Flaccus, Lucius (consul, 131 B.C.) **7**-380d.
— Flaccus, Lucius (consul, 87 B.C.) **23**-640a; **6**-375c; **10**-347a.
— Galerius : *see* Galerius.
— **MAXIMUS 27**-860a; **16**-256a; illuminated MS. (c. 1475) **14**-317 (Pl. V.).
— Maximus Corvinus Messalla, Manius : *see* Messalla.
— Probus, Marcus **16**-266d; **21**-254c.
Valerol **13**-678b.
Valero-lactone **16**-56c.
Valeryl aldehyde **1**-532a. *See also* Isovaleryl aldehyde.
Valès, Jean de **22**-501c.
Valesa, Turk. : *see* Koprülü.
Valescure, Fr. **11**-96b.
Val-ès-Dunes, Fr. : battle (1047) **19**-749d.
Valesiana (Charles de Valois) **1**-903a.
Valesius : *see* Valois, Henri de.
Val Estrète, pass, Alps **1**-742c.
Vale Summit, Md. **17**-828 (B1).
VALET 27-860c; **15**-854a; drama **25**-583d.
Valete et plaudite **2**-223a.
Valetium, It. **15**-26 (G4).
Valetta, Malta : *see* Valletta.
Valetudo : *see* Hygieia.
Valeurs en banque **25**-933c.
Valfarta, Sp. **25**-530 (E-F2).
Valfrey-Bourke commission **27**-436b.
Valganna, It. **26**-242 (F5).
Valgash (Parthian king) **21**-219a.
Valgelaye, pass, Alps : *see* Allos.
Vági-Nagy (Magyar writer) **13**-926b.
Valgius Rufus, Gaius : *see* Rufus, Gaius Valgius.
Valgus, C. Quinctius **22**-53c.
Valha, India **14**-382 (F10).
VALHALLA (myth.) **27**-860d; **26**-685c.
— (German pantheon) **20**-683c.
Valhermoso Springs, Ala. **1**-460 (C1).
Valhöll (myth.) : *see* Valhalla.
Vali (official) : Persia **21**-194b; Turkey **27**-427d.
Valia : *see* Wallia.
Valiahd **21**-194d.
Valideh Jami, Scutari **24**-518c.
— Yeni, mosque, Constantinople : *see* Yeni.
Valiente, cape, Pan. **5**-678 (B6).
Valier, Ill. **14**-304 (C5).
—, Pa. **21**-106 (D4).
Valievo, Serv. : *see* Valyevo.
Valignani, Alessandro **23**-288c.
Valili, mt., Fiji **10**-335 (B1).
Valinco, gulf, Cors. **15**-4 (B4); **7**-199c.
Valira, riv., Andorra : *see* Gran Balira.
Valis, anc. dist., Gr. : *see* Elis.
Valiyar, riv., India **14**-382 (H14).
Valjevo, Serv. : *see* Valyevo.
Valk, Jacobus van der **20**-897d.
Valkenburg, *Holl.* **13**-588 (C4); **16**-692a.
Valkenswaard, Holl. **13**-588 (C3).
Valki, Russ. **23**-874 (I-E2); **15**-772c.
VALKYRIES (myth.) **27**-860d.
Valla, Giorgio **9**-372a.
—, **LORENZO** (Laurentius) **27**-861a; **13**-530b; **8**-409b; Herodotus translation **13**-384b; Poggio's satires **21**-891c.
Valla (type) **27**-528a.
Vallabhacharis (Hindu sect) **13**-510c; **15**-927b; leaders **13**-486c; literature **13**-487a.
Vallabha Deva (Tamil king) **26**-390d.
Vallabhi : *see* Valabhi.
VALLADOLID, Mex. (Yucatan) **27**-861d; **18**-318 (I3).
—, Mex. (Michoacan) : *see* Morelia.
VALLADOLID, Sp. **27**-861d; **25**-530 (C2); council (1322) **14**-594b; university **27**-862a, **27**-757a.
VALLADOLID, prov., Sp. **27**-861c; **25**-530 (C2).
— la Nueva, Hond. : *see* Comayagua.
Vallage, dist., Fr. **10**-776 (F2).
Vallagiri, mts., India **6**-652d.
Vallam, India **14**-626c.
Vallanca, Sp. **25**-530 (E2).
VALLANDIGHAM, CLEMENT Laird 27-862b; **16**-708c.
Vallarte, Adalbert **13**-296d.
Vallauris, Fr. **10**-778 (H6).
Valla Valla Creek, riv., Wis. **28**-740 (D-E4).
Vallay, isl., Scot. **24**-412 (A2); **27** 564b.
Valldemosa, Sp. **25**-530 (G3).
—, val., Bal.Is. : *see* Valdemosa.
Vall de Uxó, Sp. **25**-530 (E-F3); **5**-473a.
VALLE, PIETRO DELLA 27-862d; cuneiform signs **7**-629c; Samaritan scriptures **24**-110c.
Valle, Fla. **10**-540 (C6).
—, Nor. **19**-804 (B3).
—, Venez. **27**-989 (B1); **5**-298d.
—, riv., Ec. **8**-912d.
—, climatic zone, Bol. **4**-170a.
Vallécas, Sp. **25**-530 (D2); **17**-292c.
Vallecitos, riv., N.Mex. **19**-520 (D1).
Valle Crucis, abbey, Wales **16**-830a.
Vallecula cerebelli **4**-394b.
Valle de Catamarca, riv., Arg. **5**-502c.
— dei Mezzano, lagoon, It. **15**-4 (D2).
— de Santiago, Mex. **12**-649d.
Vallée d'Aran, Sp. : *see* Aran.
Vallès, Les, dist., Switz. **19**-423c.
Valle Grande, Bol. **4**-167 (C3).
— Hermoso, pass, S.Am. : *see* Patos, Los.
Vallejo, Alonso **6**-744c.
—, Mariano Guadalupe **27**-863b.
— (guerrilla leader) **25**-607d.
VALLEJO, Cal. **27**-863a; **5**-8 (B2).
Vallelunga, Aus. **8**-366c.
Vallemont (French author) **13**-118d.
Vallenar, Chil. **2**-462 (B2); **6**-148c.
Vallendar, Ger. **11**-808 (I. k7).
Vallerano, It. **15**-4 (E2).
Valleraugue, Fr. **10**-778 (F5).
VALLES, JULES 27-863b.
Valles, pass, Alps **1**-747c.
Vallese, canton, Switz. : *see* Valais.
Valles Mines, Mo. **18**-608 (F3).
Vallespir, val., Fr. **22**-689a.
Vallet, Fr. **10**-778 (D4).
Valle Tiberina cattle **15**-10b.
Valleton, Cal. **5**-8 (C4).
VALLETTA (Valetta), Malta **27**-863c; **17**-508 (B1); **17**-509b.
Valley, Colo. **6**-722 (G2).
—, Ida. **14**-276 (A1).
—, Ill. **14**-304 (B4).
—, Neb. **19**-324 (H3).
—, Wales **9**-428 (V. B1).
—, Wash. **28**-354 (H1).
Valley, Wis. **28**-740 (E4).
—, lake, S.Aus. **18**-940d.
—, riv., N.C. **19**-772 (A4).
Valley **11**-633a; **5**-574b; formation **11**-642a, **11**-643a, **11**-672d, **11**-673c.
Valleybend, W.Va. **28**-560 (C-D3).
Valley Center, Kan. **15**-654 (E3).
— City, Ind. **14**-422 (E8).
— City, N.Dak. **19**-780 (F-G3).
— Co., Mont. **14**-276 (F-G1).
— Co., Neb. **19**-324 (E-F3).
— Creek, riv., Ala. **1**-460 (B2).
— Creek, riv., Pa. **27**-864a.
— Creek, riv., Tex. **26**-690 (G3-4).
— Crossing, O. **20**-26 (M3).
— Falls, Kan. **15**-654 (G1).
— Falls, N.Y. **19**-596 (G3).
— Falls, R.I. **7**-627b.
VALLEYFIELD, Can. **27**-864a; **5**-160 (C-D4).
Valley Forge, Conn. **6**-952 (B4).
— **FORGE,** Pa. **27**-864a; **21**-106 (K7).
— glacier (geol.) **12**-60c.
— Head, Ala. **1**-460 (D1); **1**-459c.
— Head, W.Va. **28**-560 (C-D3).
— Junction, Ia. **14**-732 (D3).
— Junction, Wis. **28**-740 (C4).
— Lee, Md. **17**-828 (F4).
— lines (magnetism) **17**-380d.
— Mills, Ind. **14**-422 (E5).
— Mills, Tex. **26**-690 (K4).
— of Rocks, Dev. **17**-172d.
— Park, Miss. **18**-600 (B3).
— Park, Mo. **18**-608 (F3).
— Point, W.Va. **28**-560 (D2).
— Ridges, mts., Pa. **2**-207d.
— Spring, Tex. **26**-690 (I5).
— Springs, Ark. **2**-552 (B1).
— Springs, Cal. **5**-8 (C2).
— Springs, S.Dak. **25**-596 (I4).
— Station, Ky. **15**-740 (B-C2).
— Stream, N.Y. **19**-596 (E-F4).
— View, Ky. **15**-740 (D3).
— View, Pa. **21**-106 (I-K4).
— View, Tex. **26**-690 (B6).
Vallgren, Villé **24**-511c.
Vallhaba : *see* Balhara.
Valliant, Okla. **20**-58 (F4).
Vallicita, Cal. **5**-8 (C2).
Vallier, Ark. **2**-552 (D3).
Vallière, riv., Fr. **16**-988a.
Vallières, Ger. **18**-310 (plan).
Vallin (colonel) **28**-381c.
Vallis, N.Af. : *see* Median.
— Flaviana, Fr. : *see* St Gilles.
Vallisneri, Antonio **11**-641c.
Vallisneria : *see* Eel-grass.
Vallis Poenina, dist., Switz. : *see* Valais.
— Sapinorum, Sp. : *see* Valsain.
Vallmanya, Antoni **25**-589c.
Vallmitjana, Agapito **24**-514d.
—, Venancio **24**-514d.
Vallo, It. **15**-4 (E4).
VALLOMBROSA, It. **27**-864b; **15**-4 (C3); school of forestry **10**-649d.
VALLOMBROSIANS (monks) **27**-864c.
Vallon, Fr. **10**-778 (G5).
Vallongo, Port. **25**-530 (A2).
Vallonia, Ind. **14**-422 (E7).
Vallonpierre, pass, Alps **1**-742c.
Vallorbe, Switz. **26**-242 (A3).
Vallotton, Felix **5**-334b.
VALLS, Sp. **27**-864c; **25**-530 (F2); battle (1809) **21**-92b; brigands **4**-565c.
Valluga, mt., Alps **26**-242 (I2); **1**-746a.
Vallum **28**-275b; Hadrian's Wall **4**-586b.
Valmadrera, It. **16**-353c.
Valmala, Sp. **25**-530 (D1).
Valmiki (Sanskrit author) **24**-169a.
Valmont, Fr. **10**-778 (E2); **24**-589b.
Valmontone, It. **16**-270b.
Valmore, Marcelline Desbordes : *see* Desbordes-Valmore.
Val Morta, pass, Alps **1**-747a.
Valmy, Alfred de : *see* Stinde, Julius.
—, François C. de Kellermann, duke of : *see* Kellermann.
Valmy, Alg. **1**-643 (A2).
—, Fr. : battle (1792) **11**-171c.
Valö, Swed. **26**-190 (E1).
Valognes, Peter de : *see* Peter (de Valognes).
—, Philip de, lord of Panmure : *see* Valoines.
Valognes, Fr. **10**-778 (D3); **17**-543b.
—, arrondissement, Fr. **17**-543a.
Valoines (Valognes), Philip de, lord of Panmure **3**-257c.

VALOIS, COUNTS AND Dukes of 27-864c.
—, Adrien de **27**-865c; *Valesiana* **1**-903a.
—, Charles de, duke of Angoulême: *see* Angoulême.
—, Charles de (numismatist) **27**-865b.
—, **HENRI DE 27**-865a; **9**-890c.
Valois, dist., Fr. **10**-776 (E2); **10**-802 (map).
— (dynasty) **10**-819d.
— style (arch.) **2**-413c.
Valona, Turk.: *see* Avlona.
—, lake, Turk. **27**-426 (A3).
Valonia (Algae) **1**-588a.
— (tanning) **16**-333b; **19**-935b; **3**-65d.
Valoniaceae **1**-587d.
Valor Ecclesiasticus **22**-960a.
Valori, Baccio **18**-35c; **18**-36c; **18**-36d.
—, Filippo **10**-318a.
—, Francesco **24**-252d; **10**-536d.
Valoring: *see* Alure.
Valouze, riv., Fr. **15**-565b.
Valovale, tribe **1**-330b.
VALPARAISO, Chil. **27**-865b; **2**-462 (B3); earthquake (1906) **6**-159b; fire (1862) **10**-403a; museum **19**-69c.
VALPARAISO, Ind. **27**-865d; **14**-422 (D2).
—, Neb. **19**-324 (H3).
VALPARAISO, prov., Chil. **27**-865b; **2**-462 (B2 and B3); minerals **6**-150b.
Valpelline, It. **26**-242 (C5).
—, pass, Alps **1**-743c.
—, val., It. **26**-242 (C5).
—, Torrente di, riv., It. **26**-242 (C5).
Valpjofstadur, Ice. **24**-292c.
Valpovo, Hung. **3**-4 (F4).
Valpy, Abraham John **27**-865d.
—, Edward **17**-797c.
—, **RICHARD 27**-865d.
Valréas, Fr. **10**-778 (G5).
Valrhein, mt., Alps: *see* Rheinwaldhorn.
Valromey, dist., Fr. **4**-822c; **10**-834b.
VALS (Vals-les-Bains), Fr. **27**-866a; **10**-778 (G5); mineral springs **18**-521c.
Valsad, India: *see* Bulsar.
Valsain (Vallis Sapinorum), Sp. **16**-78c.
Val-Sainte, Switz. **27**-214b.
Valsalva, A. M. **1**-934a; **18**-832a; **13**-123a.
Valsavoia, Sic. **25**-23b.
Valsch, riv., S.Af. **25**-466 (H6); **27**-830b.
Valse: *see* Waltz.
Valsequillo, Sp. **25**-530 (C3).
Valserberg, pass, Alps **1**-744c.
Valserine, riv., Fr. **1**-440a; **23**-271d.
Valsorey, pass, Alps **1**-743d.
Vals-Platz, Switz. **26**-242 (G3).
VALTELLINA (Veltlin), val., It. **27**-866a; **15**-4 (B1); French treaties **10**-834b, **10**-836b; railway **27**-123c.
Valton, Wis. **28**-740 (C5).
Val Torta, pass, Alps: *see* Vereina.
Valtos, Scot. **24**-412 (B1).
Valtournanche, It. **26**-242 (D5).
VALUATION AND VALUERS 27-867a.
— list **22**-915d.
VALUE (econ.) **27**-867c; **18**-695c; **28**-438a; Cairnes **4**-951c; international, theory of **27**-873d; Marx **17**-809d; Rodbertus **23**-437c; Say **24**-275a; Adam Smith **25**-257a; standard units **18**-702d.
— (painting) **14**-345c.
Valued policies (marine insurance): *see under* Policy.
— Policy laws (U.S. fire insurance) **14**-662c.
Value judgment **1**-278a.
— payable: *see* Cash on delivery.
Valuiki, Russ. **23**-874 (I. G1); **28**-212a.
Valure: *see* Alure.
Valvassori **6**-788a.
Valva-Sulmona, see, It. **15**-18c.
Valvata (gastropod) **11**-515c; **11**-515d (fig.); **11**-517d.
— (star-fishes) **8**-886b.
Valvate **16**-328d; **10**-562a; **10**-562a (fig.).
Valvatidae **11**-515c.
VALVE (dict.) **27**-874b: *see also* Valves.
— chest **25**-832a.
— closet **24**-738d.
— gear **25**-834a.
— ophicleide: *see* Bombardon.
Valverde, Vincente de **2**-822c.
Valverde, Ariz. **2**-544 (B2).
Valverde, Can.Is. **13**-454c.
—, N.Mex. **19**-525a.
—, Sp. **25**-530 (D2).
— Co., Tex. **26**-690 (F-G6).
— del Camino, Sp. **25**-530 (B4).
Valves (anat.) **27**-930d. *See also* Eustachian valve, &c.
— (bot.) **8**-169d.
— (mech.): aqueduct **2**-246d; boilers **4**-148b; expansion: *see* Expansion-valve; hot water pipes **13**-164b; internal combustion engine **18**-917c; pneumatic tire **26**-1008c; slide valve: *see* Slide valve; steam engine **25**-831d; water pipe **14**-65b.
VALVES (mus. instr.) **27**-874c; **28**-709d; bombardon **4**-182c; horn **13**-699b; organ **20**-261a.
— of Houston: *see* Plicae recti.
Valvifera **17**-459b.
Val Viola, pass, Alps **1**-745b.
Valvulae conniventes **1**-665d.
Valvular disease **13**-132d.
Valvulina **5**-311b.
VALYEVO, Serv. **27**-876a; **24**-686 (A1).
—, dept., Serv. **24**-686 (A1).
Valyl **27**-859a.
Valz, J. B. **13**-229d.
Valzeina, val., Switz. **26**-242 (H3).
Vamacharis (Vama-margis, sect) **13**-511c.
VAMBERY, ARMIN 27-876a.
Vambrace **2**-587a.
Vamcavali **19**-381c.
Vamdrup, Den. **8**-24 (B3).
Vammelsun, Fin. **23**-872 (C7).
Vamos, Crete **7**-428c.
VAMPIRE (myth.) **27**-876c; **8**-6d; Lamia **16**-130a; lycanthropy **17**-149b.
— bats **27**-876d; **6**-243b; **6**-241a. *See also* Vampyreae *and* Desmodontieae.
Vampyreae **6**-243c.
VAMPYRELLA 27-877d; **22**-471c; **22**-471a (fig.).
Vampyrops **6**-244b.
Vampyroteuthis **5**-702b.
Vampyrus **6**-243c.
Vamsadhara (Vamsadari), riv., India **14**-382 (K-L10); **11**-452c.
Vamsas, anc. kingdom, India **14**-396b.
Van, Ark. **2**-552 (D3).
VAN, Turk.As. **27**-877d; **2**-565 (D2); inscriptions **13**-534d; massacres (1896 and 1908) **2**-568b; Semiramis **24**-617a.
—, Wales **18**-785b.
—, lake, Turk.As. **2**-565 (D2); **23**-648 (G3); **27**-878b; water analysis **16**-87c.
—, mt., Wales **5**-355d.
— (Vaspurajan), vil., Turk.As. **2**-565 (D2); **27**-878b; Ardzrunian kings **2**-566a; Senekherim **2**-566a.
VAN (dict.) **27**-878c.
Vanacini, tribe **14**-636d.
Vanadates **27**-879c.
VANADINITE 27-878d.
Vanadite: *see* Descloizite.
VANADIUM 27-878d; compounds **27**-879b; steel alloy **25**-1019c, **14**-809b.
Vanaise, G. **20**-508c.
Van Alphen, H.: *see* Alphen.
Van Alphen, riv., S.Aus. **2**-960 (F3).
— Alstyne, Tex. **26**-690 (B-C6).
Van Amburgh (Am. showman) **6**-391b.
Vanapa, riv., N.G. **19**-487 (E3).
Vanaprastha: *see* Vanavasin.
Vanaratana Medhankara: *see* Medhankara.
Vanaspati **6**-975d.
Vanasselt, Wash. **28**-354 (B4).
Vanatur (deity) **2**-570a.
Vanavana, isl., Pac.O. **20**-436 (L-M7).
Vanavasin **4**-384a.
Van Beers, Jan (painter) **27**-879d; **20**-507c.
— **BEERS, JAN** (poet) **27**-879d; **10**-495c.
— Boendale, Jan: *see* Boendale.
Van Bremer Creek, riv., N.Mex. **19**-520 (F1).
VANBRUGH, SIR JOHN 27-880a; **2**-420c; Blenheim palace **28**-804a.
—, Violet: *see* Bourchier.
Van Buren, Abraham **27**-882d.
— **BUREN, MARTIN 27**-881b; **27**-699c; Andrew Jackson and **15**-108c; Margaret O'Neill Eaton **8**-838c.
Van Buren, Ark. **2**-552 (A2).
Vanburen, Ind. **14**-422 (F3).
Van Buren, Ky. **15**-740 (C3).
— Buren, Me. **17**-434 (E1).
— Buren, Mo. **18**-608 (F4).
Vanburen, O. **20**-26 (C2).
Van Buren Co., Ark. **2**-552 (C2).
— Buren Co., Ia. **14**-732 (E-F4).
— Buren Co., Mich. **18**-372 (D-E7).
— Buren Co., Tenn. **26**-620 (F2).
VANCE, ZEBULON BAIRD 27-882d.
Vance, Ala. **1**-460 (B2).
—, Colo. **6**-722 (B4).
Vanceboro, Me. **17**-434 (E3).
—, N.C. **19**-772 (E2).
Vanceburg, Ky. **15**-740 (E2).
Vance Co., N.C. **19**-772 (D1).
— Mills, Pa. **21**-106 (C6).
Vancleave, Miss. **18**-600 (D5).
Van Clevesville, W.Va. **28**-560 (E-F2).
— Corlaer (Curler), Arendt **24**-319d.
— Cortland, Henry Charles **9**-1d.
Van Cortlandt, park, N.Y.City **19**-612b.
VANCOUVER, GEORGE 27-883a; explorations **11**-629c.
VANCOUVER, Can. **27**-883c; **4**-600 (E3).
VANCOUVER, Wash. **27**-883c; **28**-354 (C4); blind and deaf schools **28**-356c.
—, fort, Oreg. **20**-248d.
VANCOUVER, isl., Can. **27**-883d; **4**-600 (D3); British colony (1849) **4**-600d; railways **4**-600b; rainfall **5**-147a.
—, mt., Can. (Yukon) **1**-472 (L3); **1**-473a.
—, mts., Can. (B.C.) **27**-883d.
Van Curler, Arendt: *see* Van Corlaer.
Vand **19**-799b.
Vanda **20**-172c.
—, lowii **4**-259d.
Vandalia, Ill. **14**-304 (C5).
—, Ind. **14**-422 (D6).
—, Mich. **18**-372 (E8).
—, Mo. **18**-608 (E2).
—, Mont. **14**-276 (F1).
—, O. **20**-26 (B5).
—, dist., Va. **27**-681c.
Vandalio: *see* Cetina, Gutierre de.
Vandalism **27**-884d.
Vandalitia, prov., Sp.: *see* Andalusia.
VANDALS 27-884a; **23**-649 (D1); Africa conquered **23**-657c, **5**-430d, **11**-390c; coinage **19**-897d; Corsica conquered **7**-200b; Isidore of Seville's history **14**-871d; Langres burnt **16**-177d; language **26**-676c; Ricimer defeats **23**-314b; in Spain (5th cent.) **25**-538d.
Vandalusia, prov., Sp.: *see* Andalusia.
Vandam, Albert **7**-407a.
VANDAMME, DOMINIQUE René, count **27**-885c; Dresden (1813) **8**-576d, **19**-230c; Netherlands campaign **11**-178a; Waterloo compaign **28**-371d, **28**-373d, **23**-377a.
Vandeae **21**-781c.
Van de Kastiele, Pieter Leonard: *see* Kastiele.
Vandel, Den. **8**-24 (B3).
Vandeleur, C. F. Seymour **9**-127d.
—, Sir John Ormsby **28**-381a; **12**-306b.
Vandeleuria: *see* Tree mouse.
Vandellia **5**-514b.
— cirrhosa: *see* Candiru.
Vandellos, Sp. **25**-530 (F2).
Vandemere, N.C. **19**-772 (F2).
"Vandemiaire" (submarine) **24**-921b.
Van den Eeckhout, G.: *see* Eeckhout.
VANDERBILT, CORNELIUS (d. 1877) **27**-886b; **7**-921d.
—, Cornelius (d. 1899) **27**-885d; **19**-246d.
—, George W. **10**-657c; **2**-731d.
—, William Henry **27**-886a.
Van der Bilt, Jan Aersten **27**-885d.
Vanderbilt, Mich. **18**-372 (F4).
—, Pa. **21**-106 (C5).
— university, Tenn. **19**-246d; **27**-886a; **18**-296b.
Vanderbourg, M. M. C. de Boudens **26**-161b.
Vanderburg, Ky. **15**-740 (A3).
— Co., Ind. **14**-422 (B8).
Vandercook, Ill. **14**-304 (E3).
Van der Crab, P. **19**-488d.
Van der Donck, Adrian **28**-922d.
Van der grift, Pa. **21**-106 (C-D4).
Van der Heyde, Jan **10**-417a.
— der Heyden's ferry, N.Y.: *see under* Troy.
— der Hoop Art Collection, Amsterdam **1**-897d.
— der Kemp, John T. **18**-587a; **18**-593a.
— der Kodde (Mennonites) **18**-132c.
— der Linde, Anton **27**-529c.
— der Linde: on chess **6**-101b.
Vanderlin's, isl., Austr. **2**-960 (F3).
VANDERLYN, JOHN 27-886c.
Vandermonde, Abnit T. **9**-717d.
—, Charles A. **8**-113a.
Vandermonde's theorem **1**-611a.
VAN DER STAPPEN, Charles 27-886d; **24**-512a; **15**-98c.
Vandervoort, Ark. **2**-552 (A3).
Van der Werf, park, Leiden **16**-395a.
VAN DER WEYDEN, ROGER 27-887a.
Van Deusenville, Mass. **12**-397b.
VANDEVELDE, ADRIAN 27-887b; **13**-436d.
—, Esaias **20**-356b; **2**-778d.
—, **WILLIAM 27**-887b; **20**-478a.
Vandewalle, Domingo **12**-650b.
Van Deyssel, L. (pseud.): *see* Thijm, K. J. L. Alberdingk.
Van Diemen, Antony **26**-437b.
Van Diemen (Osumi-Kaikyo), str., Jap. **15**-156 (G11).
— Diemen's, gulf, S.Austr. **2**-960 (E2); **2**-942a.
— Diemen's Land, isl.: *see* Tasmania.
— Diemen's Land Company **26**-442b.
Vanding, Pa. **21**-106 (L-M2).
Vandiver, Ala. **1**-460 (C2).
Vandö, isl., Nor. **19**-800 (D1).
Vandogara, Scot. **3**-76b.
VAN DORN, EARL 27-887c; battle of Corinth (1862) **1**-821b; Vicksburg campaign **28**-22b.
Vandorn, Ala. **1**-460 (B3).
Vanduara, fort, Scot. **20**-520d.
Vanduser, Mo. **18**-608 (G5).
Vanduzer, Ark. **2**-552 (C4).
VAN DYCK, SIR ANTHONY 27-887d; portraiture **22**-128d, **20**-476a.
— Dyck, Justiniana Anna **27**-891c.
— Dyck, Mary Ruthven, Lady **27**-891a; **12**-302d.
Vandyck brown **21**-599b.
Vandyke, F. R. **26**-93d.
Van Dyke, Henry **1**-840a; **22**-293c.
Vandyne, Wis. **28**-740 (E5).
Vane (family) **27**-892a; **27**-893d; **6**-501b.
Vane, Charles W. Stewart: *see* Londonderry, 3rd marquess of.
—, Sir Francis **14**-523a.
—, **SIR HENRY** (d. 1654) **27**-892a; **3**-410d.
—, **SIR HENRY** (the younger, d. 1662) **27**-892d; **5**-914a; **17**-858c; **18**-486c.
—, Sir Walter **16**-845a.
Vane, mt., Scot. **24**-418 (B2); **8**-660b.
Vane (feather): *see* Vexillum.
VANE (weathercock) **27**-894a; **2**-2b.
Vanellus cristatus: *see* Lapwing.
— vulgaris: *see* Lapwing.
Vanelvsgabet, bay, Nor. **19**-804 (A1).
Väner, lake, Swed.: *see* Vener.
Vanessa (friend of Swift): *see* Vanhomrigh, Esther.
Vanessa (butterfly) **16**-477a; **16**-468c; **16**-467c.
— io: *see* Peacock butterfly.
Vanessidi **16**-477a.
Vane Tempest (Vane-Tempest-Stewart, family) **16**-968c.
Van Etten, N.Y. **19**-596 (D3).
Vang, Nor. **19**-804 (C2).
—, N.Dak. **19**-780 (F1).
Vanga, Br.E.Af. **4**-601 (B4).
Vangaindrano, Mad. **17**-271 (C4).
Vanganella **16**-123c.
Vangath, India **14**-430a.
Vange, Ess. **16**-942 (F2).
Van Gèle, A. **27**-553d.
Vangerow, Karl Adolf von **26**-846c.
Vangio (prince) **11**-831a.
Vangiones, tribe **28**-833a; **11**-830b.
Van Goens, bay, N.G. **19**-487 (A-B1).
Vangsvand, lake, Nor. **28**-215c.
"Vanguard" (warship, 18th cent.) **19**-699d.
"Vanguard" (battleship) **24**-900b.
Vangueria infausta: *see* Misple.
Van Hammen, Ludwig **23**-117c.
— Hise, C. R. **15**-490c; **18**-505d.
Van Hiseville, N.J. **19**-502 (D3).
Vanhöffen, Professor **21**-967a.
Vanhomrigh, Esther **26**-228a; **3**-780a.
Van Horn (buccaneer) **18**-338b.
Van Horn, Ia. **14**-732 (E2).
— Horn, Tex. **26**-690 (C4).
— Horn, Wash. **28**-354 (D1).
— Horn, mts., Tex. **26**-690 (C5).
VAN HORNE, SIR WILLIAM Cornelius 27-894b; **5**-162b.
Van Houten, N.Mex. **19**-520 (F1).
— Houten project **13**-605b.
Vanière: on divining rod **13**-118d.
Vani-Keui, Turk. **27**-426 (F3).
Vanikoro, isls., Pac.O. **20**-436 (F6); **24**-186c.
VANILLA (bot.) **27**-894b; **20**-172b.
Vanillic acid **1**-532d; **27**-894d.
Vanillin **27**-894d; **20**-52b.
Vanilloin **1**-532d.
Vanil Noir, mt., Alps **26**-242 (C3); **1**-744a.
Van Ingen, W.B. **13**-21d.
VANINI, LUCILIO (Giulio Cesare) **27**-895a; **22**-302d.
Vanir (myth.) **26**-684a; **18**-171d.
Vanishing lady **6**-948b.
— line **21**-257b.
— point **21**-257b.
Vanity Fair, R.I. **8**-837c.
Vanity Fair (periodical) **19**-563b; **5**-332d; **26**-1016a.
Vanity Fair (Thackeray) **26**-717d.
Vanity of Human Wishes, The (S. Johnson) **15**-466c.
Vaniyambadi, India **14**-382 (H13).
Van John (card game): *see* Vingt-et-Un.
Vank, Pers. **10**-190d.
Vankaner, India: *see* Wankaner.
Vankerckhovenville, Bel.Cong. **6**-923 (E2).
Van Keulen (cartographer) **21**-943a.
Van Keulen, bay, Spitzbergen **25**-709b.
Vanleer, Tenn. **26**-620 (D1).
VANLOO, CHARLES ANdrew 27-895b.
—, Jacob **19**-341a.
—, **JOHN BAPTIST 27**-895c.
Vanlue, O. **20**-26 (C-D3).
Van Mayen, bay, Spitzbergen: *see* Low, sound.
Van Mekelenburg, John **23**-23a.
Van Meter, Ia. **14**-732 (C-D3).
Van Metre, John **28**-562d.
Vanna, Ga. **11**-752 (C1).
Vännäs, Swed. **19**-800 (D3).
Vanndale, Ark. **2**-552 (E2).
Vanne, riv., Fr. **28**-923a.
—, springs, nr. Paris **20**-811d.
Vanner **20**-240b.
VANNES, Fr. **27**-895c; **10**-778 (C4); cathedral **27**-895d; Veneti **27**-986a.
Vanni, Andrea di **20**-480c; **25**-53c.
—, Paolo (of Perugia) **25**-634a.
Vannius (king) **11**-831a.
Vannoch, mt., Scot. **24**-418 (B1); **21**-262a.
Van Noort, Olivier **27**-865d.
Vannsjö, lake, Nor. **19**-804 (D3).
Vannucchi, Andrea: *see* Andrea del Sarto.
Vannucci, Pietro: *see* Perugino.
Van Obstal (Opstal), Gerard **15**-98a.
Vanoïse, pass, Alps **1**-743a.
Van Orin, Ill. **14**-304 (C2).
— Ormer, Pa. **21**-106 (F4).
Vanozzo, Francesco di **14**-903c.
Van Parris, George **27**-594d.
Van Petten, Ill. **14**-304 (C2).
— Pool, lake, Wales **5**-355d.
Vanport, Pa. **21**-106 (B4).
Vanquished Dragon, Order of **8**-467d.
Van Raub, Tex. **26**-690 (I6).
— Reenen, bay, Ger.S.W.Af. **25**-466 (B6).
— Reenen's Pass, Natal **8**-474d; **20**-151b.
— Rees, mts., N.G. **19**-487 (C1).

Van Rensselaer, Killian **27**-896a; **19**-604c; **1**-490c.
— Rensselaer, Solomon **27**-896b.
— **RENSSELAER, STEPHEN** **27**-896a; **1**-848c; **1**-491a; **27**-319a.
Van Rensselaer, bay, Green. **21**-938 (A2).
— Rhyns Dorp, Cape Col. **25**-466 (D8); **5**-227a.
Van Schaick, Gozen, **23**-685b.
— Schaick, S.W. **5**-335b.
Van Schaick's, isl., Hudson Riv., U.S. **27**-319b.
Vanse, Nor. **19**-804 (B3).
Vans Harbor, Mich. **18**-372 (D4).
Van Sittart, A. A. **24**-578b.
Vansittart, George **27**-896c.
—, **HENRY** **27**-896b; **14**-408d; **13**-55d; **6**-535b.
—, Nicholas: *see* Bexley, N. Vansittart, baron.
—, Robt. **27**-896c.
Vansittart, bay, W.Aus. **2**-960 (D2).
—, isl., Can. **5**-160 (N2).
—, isl., Tas. **26**-438 (B1).
—, mts., Cape Col. **12**-606c.
Vansjö, lake, Nor. **19**-804 (E1).
Vanstabel (admiral) **10**-424a.
Vanstad, Swed. **26**-190 (B4).
Vanstrand, Wis. **28**-740 (E3).
Van Straubenzee, Sir Charles **5**-220a.
Vantage game (tennis) **26**-627c.
VAN'T HOFF, JACOBUS HENDRICUS **27**-896d; **25**-368d.
Van Tieghem, P. E. L. **2**-14a; **11**-336c; coniferae **12**-760b; fossil bacteria **3**-157b; plant anatomy **21**-743c.
Vantini, Joseph: *see under* Yusuf.
Vantoux, Ger. **18**-310 (plan).
Van Twiller, Wouter **23**-23a.
Vanua Batevu, isl., Pac.O. **10**-335d.
— Kula, isl., Pac.O. **10**-335 (B2).
— Lava, isl., Pac.O. **20**-436 (M8); **19**-500c.
— Levu, isl., Pac.O. **10**-335 (B1); **10**-335b.
— Masi, isl., Pac.O. **10**-335 (C2).
— Mbalavu, isl., Pac.O. **10**-335 (C1).
— Vatu, isl., Pac.O. **10**-335 (C2).
Va-nu-pieds (Norman rebels) **10**-836a.
Vanuxemia **16**-122b.
Van Vechten, Derrick Teunis **5**-537d.
Vanves, Fr. **10**-778 (B6).
—, fort, Paris **10**-778 (B6); **20**-805a.
Van Vienen (family) **21**-799b.
Vanvitelli, Luigi **2**-413a; **17**-7a; **5**-444d.
Van Vleet, Miss. **18**-600 (D2).
Vanvoorhis, W.Va. **28**-560 (D2).
Van Vorst, N.J. **15**-331d.
Van Wert, Isaac **26**-433b; **27**-897a.
Van Wert, Ia. **14**-732 (D4).
— **WERT,** O. **27**-897a; **20**-26 (A3).
— Wert Co., O. **20**-26 (A-B3).
Van Wyck, Robert A. **22**-211c; **7**-482a.
Vanwyck, Ida. **14**-276 (B3).
Vany, Ger. **18**-310 (plan).
Vanzandt, Wash. **28**-354 (C-D1).
Van Zandt Co., Tex. **26**-690 (M3).
Vanzant, Ky. **15**-740 (B3).
Vanzone, It. **26**-242 (E5).
Van Zuren, Jan **27**-521d.
Vaour, Fr. **10**-778 (E5).
VAPEREAU, LOUIS GUSTAVE **27**-897a.
VAPHIO, Gr. **27**-897b; **1**-245d; **1**-250a; vases **7**-423b, **21**-792a.
Vapincum, Fr.: *see* Gap.
VAPORIZATION **27**-897c; **13**-151d.
Vapour (physics) **11**-841b.
— baths **3**-519c.
— density **8**-47b; **20**-860a.
Vapourer moth **16**-472d; **16**-469d (fig.).
Vapour pressure **27**-898d; Dalton **13**-139d; Deluc **7**-976b; solutions **25**-372c.
— sieve **25**-373a.
Vapours, the: *see* Hypochondriasis.
Vaprio, It.: battle (1324) **28**-128c.
Vaqueiros, Port. **25**-530 (B4).
VAQUERO (Baquero) **27**-904c; **2**-820d; **9**-383c.
Vaquero sandstone **27**-631d.
Vaquez (physician) **21**-838a.
VAR, dept., Fr. **27**-904c; **10**-778 (H6); **22**-506a; **3**-543a.
—, dist., Budapest **4**-734b.
—, riv. (anc. Varus), Fr. **10**-778 (H6); **15**-26 (A3); **1**-723b; **15**-1c.
Vara, Swed. **26**-190 (B2).
—, mt., Az. **3**-83 (4); **24**-31d.
—, riv., It. **15**-4 (B2); **15**-3b.
Vara (measure) **28**-494b; **6**-153b.
Várad, Hung.: *see* Nagyvárad.
Varada, riv., India **14**-382 (F12); **15**-647c; **24**-860b.
Varadaraja-Swami (myth.) **6**-943d.
Varadero, El, Cu. **5**-316b.
Varades, Fr. **10**-778 (D4).
Váradi, Anton **13**-930c.
Varadouro, Braz. **20**-759d.
Várady, Anthony **13**-927c.
—, Péter **13**-908a.
Varagu **17**-289d.
Varahakshatra, India **27**-368d.
Varahamihira (astronomer) **13**-498b; **24**-183a.
Varaha-mula, India: *see* Baramula.
Varahran (deity) **3**-211b.
Varais (anc. countship), Fr. **10**-931a; **18**-174a.
Varaita, riv., It. **15**-4 (A2); **15**-2b.
Varak, mts., Turk. As. **27**-877d.
Várálá, peace of (1790) **12**-738a.
Varalds, isl., Nor. **12**-941a.
VARALLO SESIA, It. **27**-905a; **15**-4 (B2); **15**-2b; frescoes **10**-284d.
Varanasi, India: *see* Benares.
Varanger, fjord, Nor. **19**-800 (G1); **19**-800b.
Varangéville, Fr. **24**-33b.
Varangian guard **23**-523d.
Varangians, race **5**-549c; **19**-839d; **15**-775c.
Varanidae **16**-826d; **16**-824c; circulatory system **23**-164a foll.; respiratory organs **23**-162d.
Varanno, Hung. **3**-4 (G2).
Varano (Varanus), lake, It. **15**-4 (E4); **15**-26 (E4-3).
Varanoidae **16**-802b.
Varanus (bot.): *see* Monitor.
Varas, Chil. **16**-830b.
Varasd, Hung.: *see* Warasdin.
Varastad (Olympia victor) **11**-444a; **20**-93d.
Varaville, Fr. **19**-750a.
Varazze, It. **15**-4 (B2).
Varberg, Swed. **26**-190 (B3); **26**-193a.
Varcar-Vakuf, Bosn. **3**-4 (E4).
VARCHI, BENEDETTO **27**-905a; **14**-906d.
Várda, Kis, Hung.: *see* Kis-Varda.
VARDANES I. **27**-905b; **21**-218d; **20**-871b; **12**-270b.
— II. **27**-905b; **20**-871b.
Vardanes, riv., Russ.: *see* Kuban.
Vardar, Turk.: *see* Yenijé-Vardar.
—, riv., Turk. **27**-426 (C2); **17**-216c; **20**-447a.
Vardariotes **17**-220c.
Vardasht, dist., Pers. **10**-190d.
Varde, Den. **8**-24 (A3).
—, riv., Den. **8**-24 (A3); **15**-609b.
Vardeklöft, Green. **12**-545b.
Varden, Pa. **21**-106 (M3).
Vardill, Birtwhistle *v.* (1835) **28**-658b; **16**-379c.
Vard Lamana Mahavira: *see* Mahavira.
Vardö, Nor. **19**-800 (G1); **19**-801d.
—, isl., Nor. **19**-800b.
Vårdträd **26**-685a.
Vardusi, mt., Gr. **12**-424 (D2); **12**-426c; **1**-298d.
Vardy, John **2**-420c.
Varea, Sp. **16**-922a.
Varee: *see* Kelp.
Varel, Ger. **20**-71c.
Varela, Dr **27**-808a.
Varela, cape, Fr.I.C. **14**-498 (F5).
Varen, Bernhard: *see* Varenius, Bernhardus.
Varen, Fr. **26**-429c.
—, Switz. **26**-242 (D4).
VARENIUS, BERNHARDUS **27**-905b.
Varenna, It. **26**-242 (G5); **6**-794c.
Varenne, Pierre: *see* La Verendrye, Pierre Gautier.
Varenne, Fr. **28**-324a.
—, dist., Fr. **14**-501c.
Varennes, S.C. **25**-500 (B2).
—, riv., Fr. **24**-588d.
Varennes-en-Argonne, Fr. **10**-778 (G3); **10**-291b; **10**-854b.
— l'Arconce, Fr. **24**-199c.
Varennes-sur-Allier, Fr. **10**-778 (F4).
Varens, mt., Alps **1**-743c.
Vareš, Bosn. **3**-4 (F4).
Vares, Sp. **25**-530 (B1).
—, cape, Sp. **25**-530 (B1); **7**-208b.
Varesco (court chaplain) **18**-950c.
VARESE, It. **27**-905d; **15**-4 (B2).
—, lake, It. **15**-4 (B2); **15**-5a; **16**-92b.
"Varese" (cruiser) **24**-913b.
Varga, John **13**-928d.
Varga Mozsar (cannon) **13**-907d.
Vargas, Juan de **19**-418b.
—, Tamayo de **27**-965b.
Vargem, plain, Braz. **1**-788d.
— Grande, Braz. **4**-440 (H2).
Vargha, Julius **13**-929d.
Vargyas, riv., Hung. **27**-211a.
Varhaug, Nor. **19**-804 (A3).
Varhely (Sarmizegethusa), Hung. **23**-648 (E2); **23**-478c; **7**-727a.
VARIA (Vicovaro), It. **27**-905d; **15**-26 (C5).
—, Sp.: *see* Varea.
Varia (tree): *see* Baria.
Variable (math.) **14**-547b; **11**-302a.
Varia, lex (Roman law) **7**-251d; **3**-824c.
Variation (astron.) **18**-805c.
— (math.): *see* Variations, calculus of.
— **AND SELECTION** (biol.) **27**-906a; **28**-1032d; **28**-1036c; causes **27**-908b, **21**-775c; limitation **27**-911c, **10**-36d; Mendelian theory **18**-119c, **28**-1036a.
—, Law of (psychol.) **2**-784c.
—, magnetic: *see* Declination.
VARIATIONS (in music) **27**-912d.
—, **CALCULUS OF** **27**-915a.
Varicella: *see* Chicken-pox.
Varicocele (med.) **27**-920d.
VARICOSE VEINS **27**-920d; dropsy **8**-590c; Marshall **17**-772c.
Variegated copper ore: *see* Erubescite.
— jackal **15**-107b.
— marls (geol.) **25**-120b.
— sole: *see* Thickback.
— tick: *see* Bont tick.
Variety (biol.) **27**-907b; **14**-26d.
—, Law of (psychol.) **22**-557c.
Varilhes, Fr. **10**-778 (E6).
Varin, Claude and Jean **19**-898d; **18**-558b.
Varina (friend of Swift): *see* Waring, Jane.
Varini, tribe: *see* Warni.
Varinius Glaber, Publius **25**-614c.
Varinus (Camers): *see* Guarino (Guarinus) da Verona.
Variola: *see* Smallpox.
Variolae vaccinae: *see* Cow-pox.
VARIOLITES **27**-921b; **8**-144d.
Varioloid **25**-248a.
Variorum Shakespeare (Malone) **13**-303c.
Variscian Alps (geol.) **9**-911c; **5**-312b; **2**-971c.
VARISCITE (min.) **27**-921d; **27**-483b.
Varius Rufus, Lucius: *see* Rufus.
Varix (Vulva) **12**-765b.
Varjag Njarga, penin., Nor. **19**-800 (G1).
Vark, Kan. **15**-507d.
Varlaam (metropolitan) **23**-845a.
Varlet (French army) **11**-573c.
Varley, C. F. **9**-177d; **9**-191d; **6**-877a; insulator **26**-511d; pneumatic despatch system **21**-865d.
—, **CORNELIUS** **27**-921d.
—, **JOHN** **27**-922a; **18**-965b.
Vármegyek, div., Hung. **13**-902c.
Varmia, dist., Ger.: *see* Ermeland.
Värmländingarna (Dahlgren) **26**-219b.
VARNA, Bulg. **27**-922b; **4**-773 (D2); **23**-648 (E2); battle (1444) **27**-445d, **13**-956b; climate **4**-774a; defence works **4**-778d; geology **4**-773d; railway **4**-776b; siege (1828) **23**-931a.
—, Ill. **14**-304 (C2).
—, bay, Bulg. **27**-922b.
Varna (Indian sociology): *see* Caste.
Varnado, La. **17**-54 (E3).
Varnavin, Russ. **23**-872 (G4); population **15**-919a.
Varne, shoal, Dover Strait **9**-457d.
Varnells Station, Ga. **11**-752 (B1).
Varner, Ark. **2**-552 (D3).
Varnhagen, F. A. **4**-453a.
VARNHAGEN VON ENSE, Karl August **27**-922c; **27**-922d.
VARNISH **27**-922d; **20**-458b; in violins **28**-103d.
— tree **1**-543d.
Varnville, S.C. **25**-500 (C-D4).
Varo, Michel **2**-812a.
Väro, Swed. **26**-190 (B3).
—, isl., Nor. **16**-863a.
Varoli, Constantio **1**-930b.
Varosh, Serv. **24**-686 (C-D2).
—, Turk. **27**-426 (B2).
—, Séres, Turk. **24**-664a.
Város Hidvég, Hung. **3**-4 (F3).
Varosia, Famagusta, Cyprus: population **10**-158b.
Városliget, park, Budapest **4**-736c.
Varrentrapp, Franz **6**-65a.
Varro, Aulus Terentius: *see* Murena.
—, **MARCUS TERENTIUS** **27**-923a; **16**-253d; **6**-449b; ages of the world **1**-372b; aviary **3**-60a; Iberian peoples **14**-216c; Roman history **23**-659b; satires **24**-228d.
—, **PUBLIUS TERENTIUS** **27**-924c.
— (the African): *see* Juba II.
Varrone, riv., It. **26**-242 (G4).
Vars, pass, Alps **1**-742a.
Varsányi, Julius **13**-929d.
Varsha (Hindu chronology) **13**-493a.
Varshalai, riv., India **14**-382 (H14).
Varsinsk, Russ. **23**-872 (E-F2).
Varsovie, Ivan Paskievich, prince of: *see* Paskievich.
Varsovie, Russ.: *see* Warsaw.
Varsuga, riv., Russ. **23**-872 (E2); **15**-887c.
Värtan, Swed. **25**-936c.
VARTHEMA, LUDOVICO DI **27**-924d.
Varto, Arm.: *see* Gumgum.
Vartofta, Swed. **26**-190 (B2).
Vartry, riv., Ire. **14**-744 (E3); **28**-619a.
VARUNA (myth.) **27**-925c; regent of the West **4**-386c.
Varus, Gaius Cassius Longinus: *see* Cassius, Gaius Longinus.
—, L. Betilienus **1**-543d.
—, P. Quintilius (governor of Syria) **6**-89c; **15**-399a; **23**-650d.
—, Publius Quintilius (praetor) **5**-775c.
—, Q. Attius **5**-462c.
Varvara, mt., Gr. **12**-424 (C3); **12**-426d.
Varvarin, Servia **24**-686 (C2).
Varvaro, mt., Sic. **24**-582b.
Varvarovka, Russ. **23**-874 (I.C3).
—, Russ. **23**-874 (I. F4).
Varvel (falconry) **10**-143a.
Vary, Aus. **5**-347b.
Varying action, principle of **27**-917b.
— hare **12**-949d; **27**-633d; **1**-507a.
Varzeh, mt., Pers. **9**-164b.
Varzek, dist., Pers. **14**-867d.
Varzin, Ger. **11**-808 (III. F1).
Varzo, It. **26**-242 (E4).
Varzy, Fr. **10**-778 (F4); **19**-673c.
Vas, Hung. **3**-4 (E3).
Vasa (dynasty) **21**-912b.
—, Erik Karlsson **25**-1051d.
—, Gustavus: *see* Gustavus I.
—, Kettil Karlsson **25**-1051d.
VASA, Russ. **27**-925c; **23**-872 (B3).
—, prov., Russ. **23**-872 (B3); **10**-383a.
—, Order of **15**-867a.
Vasabandhu (Buddhist) **15**-177a.
Vasa Barris, riv., Braz. **4**-440 (I4); **24**-666d.
Vas aberrans **23**-133d.
Vasa efferentia **23**-129d; **23**-133d; **14**-256d.
Vasaeus (Portuguese scholar) **22**-158a.
Vasanta, palace, Madura, India **17**-296b.
Vasanta (chron.) **13**-493a.
Vásárhely, Hódmező, Hung.: *see* Hódmező-Vásárhely.
—, Kézdi, Hung.: *see* Kézdi-Vásárhely.
—, Maros, Hung.: *see* Maros-Vásárhely.
VASARI, GIORGIO **27**-925d; **20**-489c; **1**-970d; Il Sodoma **25**-343c; Zuccaro **28**-1047b.
Vasari Society **2**-702d.
Vasastad, Stockholm **25**-935 (A2).
Vasa vasorum **2**-668a.
Vascão, riv., Port. **25**-530 (B4); **22**-135b.
Vasco, Gão **22**-144b; **28**-165b.
Vasconcellos, Diogo Mendez de **17**-474d.
—, Jorge Ferreira de: *see* Ferreira de Vasconcellos.
—, Luis de Sousa, count of Castello Melhor: *see* Castello Melhor.
Vascones (people): *see* Wascones.
Vascular **27**-1054c.
— bundles (bot.) **21**-735a.
— plants: *see* Pteridophyta *and* Phanerogam.
— **SYSTEM** (anat.) **27**-926b; embryology **9**-322b, **27**-926b; quinine **22**-757c.
— system (bot.) **21**-733c; **21**-735a.
Vas deferens **23**-129d; **23**-134a.
VASE **27**-946a; Aegean ware **1**-246a, **1**-249c; beaked **27**-316c; collections **5**-721b; gem carving **11**-567b, **23**-485a; glass **12**-90d; Indian **14**-429c; late-Minoan period **7**-421c; magnetization **17**-383c; metal: *see under* Plate; Polygnotus **20**-465a (fig.); as prizes **2**-846c; Roman **23**-108b; stone **3**-108b. *See also* Ceramics.
— (Egyptian) **5**-707d; **9**-69d; **9**-73c *foll.*; of Artaxerxes II. **2**-661d; decoration **9**-66a.
— (Greek) **5**-711a; **12**-473a; **20**-464a; Athenian **12**-477c, **12**-482d, **5**-712d; black-figured **5**-714b, **5**-717c, **12**-477d; at Corinth **7**-150a; 4th century B.C. **12**-487b; 5th century B.C. **12**-482b; geometric **12**-475b; inscriptions **14**-632c; Ionian **12**-476a; red-figured **5**-718b; statuette form **26**-655d.
VASELINE **27**-946a.
Vase siphoide **25**-151c.
Vaseuru (people) **23**-261c.
Vas-Gereben (pseud.): *see* Radákovics, Joseph.
Vashka, riv., Russ. **23**-872 (G3).
Vashon, Wash. **28**-354 (A4).
—, isl., Wash. **28**-354 (A4).
Vash-shari, Turkest. **6**-168 (D2).
Vashti (queen of Ahasuerus) **9**-797b.
Vasi a reticelli **12**-101b.
Vasilabad, Pers. **10**-293b.
Vasil'chikov Russian courtier) **20**-293b.
Vasilevskiy, isl., Arct. **19**-537a.
Vasili (of Moscow) **18**-894a.
Vasili Blazhenni, cathedral, Moscow: *see* Pokrovsky.
Vasiliki, Gr. **24**-189b.
—, site, Hierapetra, Crete **5**-708a.
Vasiliko, Gr. (N. Euboea) **12**-424 (E2).
—, Gr. (W. Euboea) **12**-424 (E2).
—, Gr. (nr. Corinth) **25**-37d.
—, Turk. **27**-426 (E-F2).
—, riv., Gr. **12**-424 (D3-4). *See also* Eurotas.
Vasilinovo, Russ. (I. C3).
Vasilje Lupul (of Moldavia): *see* Basil (the Wolf).
VASILKOV, Russ. **27**-946b; **23**-874 (I. C1).
Vasilsursk, Russ. **23**-872 (F-G4); **19**-721d.
Vasily (name): *see* Basil.
Vasilyevka, Russ. **23**-874 (I. E3).
Vasilyevskiy, isl., Russ. **24**-39a; **24**-40c; **24**-38a.
Vasio, Fr.: *see* Vaison.
Vasishtha (Vedic hero) **24**-162b.
Vasishthiputra (Andhra kings): *see* Chada Sri; Pulumayi II.
Vaskóh, Hung. **3**-4 (H3).
VASLUI, Rum. **27**-946b; **23**-826 (C1).
—, dept., Rum. **23**-826 (C1).
—, riv., Rum. **27**-946b.
Vasnczov, Apollinaris **20**-517d.
—, Victor **20**-517c.
Vaso-motor system **3**-788d; centre **19**-45a; nerves **27**-943b.
Vasper, Tenn. **26**-620 (G1).
Vaspuragan, Turk. As.: *see* Van.
Vasquez, General **24**-195b.
Vasquez, mt., Colo. **6**-722 (E2).
Vasquez de Coronado, Francisco: *see* Coronado.

Vassa (rite) **16**-99c.
VASSAL **27**-946b.
Vassalage **10**-298b; **2**-154d; **26**-173d; benefice system **10**-299d, **10**-298d; in France **10**-807d, **10**-810d, **10**-812b.
Vassalboro, Me. **17**-634 (C4).
Vassall-Fox, Barons Holland: *see* Holland.
Vassan brothers **1**-902d.
Vassar, John Guy **27**-946d.
—, Matthew (1791–1868) **27**-946d.
—, Matthew (1809–1881) **27**-946d.
Vassar, Mich. **18**-372 (G6).
VASSAR COLLEGE, N.Y. **27**-946d; **19**-960a.
Vassili (name): *see* Basil.
Vassiliev (painter) **20**-517c.
Vassoigne, J. J. P. de **24**-575c.
Vassos, Colonel **7**-429a.
Vassouras, Braz. **23**-353b.
Vassy, Fr. **10**-778 (D3).
Vassy-sur-Blaise, Fr.: *see* Wassy.
Vastara, India **14**-382 (F13).
Vastein, Swed. **4**-558d.
Vastenjaur, lake, Swed. **19**-800 (D2).
Västergötland, prov., Swed. **24**-295a.
VASTO, It. **27**-947a; **15**-26 (E3); **15**-4 (E3).
Vastus muscles **19**-57a; **1**-942b.
Vasubandhu (Buddhist) **16**-97b.
Vasudeva (Tushka: Kushan king) **15**-689a.
— (myth.): *see* Vishnu.
Vasuki (myth.) **13**-505d.
Vasumitra (Buddhist) **15**-653a; **16**-97b.
Vasvár, Hung. **3**-4 (E3); peace (*1664*) **13**-912d, **3**-8d.
Vasyugan, riv., Russ.As. **25**-10 (C3); **26**-1064b.
Vasyugansk, Russ.As. **25**-10 (C3).
Vat (dyeing) **8**-752c.
— (measure) **28**-494b.
— (whisky blend) **28**-592b.
Vata (deity) **28**-944c.
Vataces (emperor): *see* John III.
Vatan, Fr. **10**-778 (E4).
Vatapi, India: *see* Badami.
Vatatzes (emperor): *see* John III.
Vatauua, isl., Pac.O. **10**-335 (C1).
Vaté, isl., Pac.O.: *see* Efaté.
Vatel (cook) **5**-847a; **7**-74d; **10**-750d.
Vater, J. S. **3**-862c.
Vaternish, dist., Scot. **24**-412 (B2); **17**-209c.
—, pt., Scot. **24**-412 (B2).
Vatersay, isl., Scot. **24**-412 (A3); **3**-426d.
Vates (Druid class) **14**-760a.
Vatesa, Turk.: *see* Köprülü.
Vatganai, isl., Pac.O. **20**-436 (M8-7).
Vatho, riv., India **14**-376 (B8).
— Creek, delta, India **4**-186c.
Vathy, Gr. (Boeotia) **12**-424 (*E2*); **2**-917c.
—, Gr. (Ithaca) **12**-424 (B2); **15**-85a.
—, Gr. (Samos) **24**-117a; **27**-461a; **24**-116c.
—, dist., Gr. (Ithaca) **15**-85b.
—, dist., Gr. (Samos) **24**-116c.
Vati, Cauc.: *see* Batum.
Vatia, pt., Fiji **10**-335 (A1).
Vatia Isauricus, P. Servilius **4**-938c; **14**-866b; **4**-939a.
Vatican, mount, Rome **21**-847d; **21**-288c.
—, palace, Rome **23**-612 (A1); **15**-19b; **15**-61d; archives **22**-965b; architecture **23**-611a, **2**-412b; Borgia apartments **21**-630c, **27**-62b, **20**-708a; hemicycle **13**-258a; household troops **12**-658d; library **16**-571b, **15**-17b, **20**-707b; museums **19**-63d, **23**-612c, **21**-686c; observatory **19**-958c; Raphael's Loggie **22**-907a, **21**-150d, **12**-53a; Raphael's Stanze **22**-903c, **22**-907d, **20**-486c; tapestry **5**-434c, **26**-406c. *See also* Sistine Chapel.
— **COUNCIL** **27**-947b; **2**-148b; **27**-824c; Döllinger **8**-391a; Febronianism **10**-231a; papal infallibility **14**-511c.
—, blue marls of **21**-848 (table).
Vaticano (Taurianum), cape, It. **15**-4 (E5); **15**-26 (E5).
Vaticanus Codex (B) **3**-879c (Pl. I.); **20**-564a; **3**-885a.
Vatican Virgil: *see* Schedae Vaticanae.
Vaticinium Lehninense: see *Lehnin Prophecy.*
Vatika, bay, Gr. **12**-424 (E4).
Vatili, Cyprus **7**-696 (map).
Vatimesnil, A. F. H. Lefebvre de **6**-458d; **7**-331a.
Vatinia, lex **23**-643d.
Vatinius, Publius **23**-643d; **5**-543a; **5**-544a.
Vatjalaiset (race): *see* Votes.
VATKE, JOHANN KARL Wilhelm **27**-951b; **3**-862d.
Vatnajökull, glacier, Ice. **14**-228 (C2); **14**-228c.
Vatne, Nor. **19**-804 (B1).
Vatnsdalsá, riv., Ice. **14**-228 (B2).
Vätö, Swed. **26**-190 (E2).
Vatoa, isl., Pac.O. **10**-335 (C2).
Vat of Kirbuster, pit, Stronsay, Scot. **20**-280c.
Vatomandry, Mad. **17**-271 (C3); **17**-271c.
Vatopedi, monastery, Mt Athos **2**-851c; **1**-12d.
Vatsalya (dict.) **13**-511a.
Vatskir, Scot. **24**-412 (B1); **16**-525b.
VATTEL, EMERIC DE **27**-951c; **14**-697c.
Vatteluttu **26**-389b.
Vattemare, Alexandre **4**-292c.
Vätter, lake, Swed.: *see* Vetter.
Vattholma, Swed. **26**-190 (D2).
Vattier, Pierre **8**-562a.
— de Bourville **7**-705a.
Vättis, Switz. **26**-242 (G3).
Vatua, isl., Pac.O. **20**-436 (M8).
Vatui, isl., Pac.O.: *see* Atui.
Vatu-i-Leile, isl., Pac.O. **10**-335 (A2).
— Vara, isl., Pac.O. **10**-335 (C1).
Vatzdoelasaga **14**-236b.
Vatzindro, lake, Turk. **4**-889a.
Vau (Phoenician letter) **10**-111a.
Vaubach, Holl. **13**-588 (C4).
VAUBAN, SEBASTIEN LE Prestre de **27**-951d; **10**-688a; **10**-716b; **8**-735b; corps de génie **9**-407c; Fusilier regiment **11**-369c; Givet **12**-56a; in Grand Alliance War **12**-342b; Metz **18**-307d; Montalembert **18**-751d; siegecraft **10**-708c; statue **3**-51c.
Vaubecourt, Fr. **10**-778 (G3).
Vaubel, W. **6**-57d.
Vaubois, Claude Henri Belgrand, count **11**-191c.
Vaubourg, St: *see* Walpurgis, St.
Vaucanson, Jacques de **27**-32a; **6**-944d; **3**-48c; loom improvement **28**-444b, **7**-286d.
Vaucelles, Fr.: truce (1556) **10**-828a.
Vaucheria **1**-588a; **1**-589b (fig.); **1**-595d; habitat **1**-596c.
Vaucheriaceae **1**-588c.
Vauclain, S. M. **22**-849b.
Vauclerc, Fr. **12**-351b.
Vauclin, W.I. **17**-802 (B2).
—, bay, W.I. **17**-802 (B2).
—, mt., W.I. **17**-802 (B2).
—, pt., W.I. **17**-802 (B2).
Vaucluse, Ark. **2**-552 (D4).
—, S.C. **25**-500 (C3).
—, Sydney **26**-278 (D2).
VAUCLUSE, dept., Fr. **27**-953a; **10**-778 (G6).
—, mts., Fr. **27**-953b.
Vaucouleurs, Geoffroi de Joinville, sire de: *see* Joinville.
Vaucouleurs, Fr. **10**-778 (G3).
Vaucresson, Fr. **10**-778 (B6).
VAUD, canton, Switz. **27**-953c; **26**-242 (A-B3); **26**-258a; geology **20**-81d; legislation **23**-2a.
Vaudémont, Anthony of Lorraine, count of: *see* Anthony (of Lorraine).
—, Ferry of Lorraine, count of: *see* Ferri I.-IV. (of Lorraine).
Vaudémont, Fr. **18**-315d.
Vauderic **14**-591b.
Vaudet, pass, Alps **1**-743a.
VAUDEVILLE **27**-954d; in France **8**-514d; Denmark **13**-209a; Germany **13**-619d.
Vaudey Abbey, ruins, Lincs. **16**-715d.
Vaudois: *see* Waldenses.
Vaudoux worship: *see* Voodoo.
Vaudoyer, Léon **2**-134b.
Vaudremer, Joseph Auguste Emil **2**-434b.
Vaudreuil, P. F. de Rigaud, Chevalier de: *see* Rigaud.
Vaudreuil, Can. **22**-724 (C3).
—, co., Can. **20**-116d.
VAUGELAS, CLAUDE Favre, seigneur de **27**-954d; **22**-454d.
VAUGHAN, CHARLES JOHN **27**-955a.
—, Edward **23**-1020b.
—, Hannah: *see* Pritchard.
—, **HENRY** **27**-955b; **9**-621a.
—, **HERBERT** (cardinal) **27**-955d; **18**-590c; mitre of **18**-627b (fig.).
—, Captain H. B. **2**-739d.
—, Sir John (judge) **9**-727a; **5**-320c.
—, Sir John (general) **15**-821a; **21**-586c.
—, John, earl of Carbery: *see* Carbery.
—, Kate **3**-270a.
—, Phineas W. **3**-384d.
—, Rachel, Lady: *see* Russell, Rachel, Lady.
—, Richard, 2nd earl of Carbery: *see* Carbery.
—, **THOMAS** **27**-956a.
—, **WILLIAM** **27**-956c.
Vaughan, Miss. **18**-600 (B3).
—, W.Va. **28**-560 (D3).
Vaughan, R. v. (1870) **12**-786d.
Vaughanville, Ala. **1**-460 (C4).
Vaughn, Ala. **1**-460 (D3).
—, Ga. **11**-752 (B2).
—, N.Mex. **19**-520 (E3).
—, Wash. **28**-354 (F-G4).
—, mt., Mass. **17**-852 (D2).
Vaughnsville, O. **20**-26 (B3).
Vaugirard, arrond., Paris **20**-804 (B1 and B2); population **20**-810b.
Vaugneray, Fr. **10**-778 (G5).
Vaujours, fortifications, Paris **20**-805b.
Vaulion, Switz. **26**-242 (A3).
—, mt., Switz. **26**-242 (A3); **15**-566c.
Vaulruz, Switz. **26**-242 (B3).
VAULT (arch.) **27**-956c; **2**-402b; Central American **5**-678a; Gothic **2**-398d, **2**-403b; Etruscan **2**-382c; in Germany **2**-405b; Lombard Romanesque **2**-392b; Perpendicular work **2**-404a; Roman **23**-586b; stalactite **2**-423b; tracery **27**-116a; Wren **2**-419c.
— (safe deposit) **23**-997b.
Vaumainbert, Fr. **20**-292d.
Vaunage, dist., Fr. **10**-776 (E-F5).
Vaunthompsoniidae **17**-458d.
Vauprivas, Antoine Du Verdier, seigneur of: *see* Duverdier.
VAUQUELIN, LOUIS NICOlas **27**-961a; **6**-115a; **7**-479c; alum **1**-766d; lactic acid **16**-56b.
— **DE LA FRESNAYE, JEAN** **27**-961b.
Vauquelinite **7**-479c.
Vaurze, pass, Alps **1**-742c.
Vaus Creek, riv., Ind. **14**-422 (D1).
Vautier, Benjamin **20**-509d.
—, T. **25**-443b.
Vautin, Claude **7**-105a; **28**-501b; **6**-740d.
VAUVENARGUES, LUC DE Clapiers, marquis de **27**-961c; **7**-165b.
Vauvert, Fr. **10**-778 (G6).
—, Belg.: *see* Groenendal.
VAUX, CALVERT **27**-962a.
—, Elizabeth, Lady **27**-962b.
—, Nicolas Fouquet, viscount of: *see* Fouquet, N.
Vaux, Laon, Fr. **16**-190a.
—, fortifications, Verdun, Fr. **27**-1019a.
—, Council of **13**-644c.
Vauxchamps, Fr.: battle (1814) **4**-90c.
Vaux-de-Vire, gorge, Calvados, Fr. **28**-111b.
Vauxhall, bridge, Lond. **16**-938 (C3); **16**-940c.
VAUXHALL, dist., Lond. **27**-962b; **16**-119b.
—, gardens, Lond. **27**-962b; **13**-566d.
— carburettor **20**-37d.
Vaux-le-Vicomte, château, Fr. **24**-588b; **18**-101b; **10**-750d.
VAUX OF HARROWDEN, Thomas Vaux, 2nd baron **27**-962a.
"Vav" (race-horse) **13**-732c.
Vavasseur, Josiah **1**-867a.
Vavasseur-Ehrhardt control valve **20**-223a.
VAVASSOR (dict.) **27**-962b.
Vavau, isl., Pac.O. **20**-436 (H6); **27**-3d.
—, isls., Pac.O. **27**-3c.
Vavincourt, Fr. **10**-778 (G3).
Vavitao, isl., Pac.O. **20**-436 (L7); **27**-361a.
Vavuniva-Vilankulam, Cey. **14**-382 (I15).
Vawter Park, Ind. **14**-422 (F2).
Vawy, Corn.: *see* Fowey.
Vaxholm, Swed. **26**-190 (E2); **25**-936b.
Vayalpad, India **14**-382 (H13).
VAYGACH, isl., Arct. **27**-962c; **23**-872 (K1); geology **5**-88b, **25**-110b.
Vaynol Park, mansion, Wales **5**-539b.
Vaynor, Wales **18**-175a.
Vayrac, Fr. **10**-778 (E5).
Vayu (myth.) **19**-139b; **4**-386c; **4**-385a.
Vayu Purana **5**-465c.
Vayyidhabber: see *Numbers, Book of.*
Vaz, Martin **27**-285d.
—, Walter von **7**-870c.
— de Carvalho, Maria Amelia **22**-162c.
Vazerol, Switz. **12**-609c.
Vazimba, race, **17**-274a; **3**-358a; **17**-275a.
Vazkerud, dist., Pers. **15**-945a.
Vazoff, Ivan **4**-786a.
Vazon, bay, Chan.Is. **9**-430 (VI. A1); **5**-841c.
Vazquez, Alonso **25**-584a.
—, José Cadalso: *see* Cadalso Vazquez.
Vazquez, Arg. **2**-462 (D4).
Vazuza, riv., Russ. **23**-872 (D4); **25**-277c.
V.C. (abbrev.) **1**-29c.
Ve (myth.) **19**-142a.
Veadar **4**-1000d.
Veal **28**-2c; **8**-216a.
Vealanga, state, Af. **18**-732a.
Vealm, riv., Dev. **8**-132b.
Veauce, Fr. **10**-778 (F4); **1**-696b.
Veazie, Me. **17**-434 (D4).
— Bank *v.* Fenno (1869) **5**-956a.
Veber, Jean **5**-334a.
Veblen, O. **11**-733a.
Veblen, S.Dak. **25**-506 (H2).
Veblungsnaes, Nor. **19**-804 (B1); **23**-688c.
Vecchi, Orfeo **17**-295c.
Vecchia Ragusa, Aus. **9**-688d.
Vecchietta, Il: *see* Lorenzo di Pietro.
Vecchio, Palazzo, Florence **10**-529b; **5**-127a; **3**-124b.
—, Ponte, Florence **11**-383b.
—, Porto, Cors. **15**-4 (B4).
Vecelli, Francesco **26**-1025c.
—, Marco: *see* Tiziano, Marco.
—, Orazio **26**-1024c.
— (Vecellio), Tiziano: *see* Titian.
Vecellinus: *see* Cassius.
Vechel, Holl. **13**-588 (C3).
Vecht, riv., Holl. (Overysch) **13**-588 (D2); **13**-588c; **13**-591b.
—, riv., Holl. (Utrecht) **13**-588 (C2); **28**-556a.
Vechta, Ger. **11**-808 (B2).
Veciana, Pedro **4**-565c.
Vectian (Vectine) formation: *see* Lower Greensand.
Vectigalia **19**-994a; **23**-102c; **22**-513c; **10**-58c.
Vectis, isl., Rom.Brit.: *see* Wight, Isle of.
Vector (math.) **27**-962d; **1**-614c; **17**-956c.
— **ANALYSIS** **27**-962d.
— diagram **8**-147a; **17**-366c.
— differentiation **14**-546b.
Veda, tribe **27**-964d.
Vedalia cardinalis: *see* Ladybird beetle.
Vedangas **24**-160d.
Vedanta (Uttara Mimamsa) **24**-177d; **4**-386d.
Vedas **24**-160a; **4**-381b; **14**-395d; on caste **5**-465b; commentaries **4**-379b, **2**-712d, **18**-957d, **6**-665c; language **14**-488d, **24**-157b; mythology **19**-139a; oath on **19**-943b; oral transmission **26**-710c; theology **4**-378b. *See also* Atharvaveda; Rig-veda; Sama-veda; Yajur-veda.
Vedast (Vadst), St **2**-646a; **10**-804d.
Vedavati (Hagari), riv., India **14**-382 (G12); **6**-247d; **15**-626d.
VEDDAHS (Weddah), race **27**-964c; **5**-780d; **19**-343d; dancing **7**-795c.
VEDDER, ELIHU **27**-964d.
Vede, riv., Rum. **23**-826 (B3); **1**-572c.
Vedeggio, riv., Switz. **26**-242 (F4).
Vedel, Anders Sörensen **8**-39d.
Vedel, cape, Green. **12**-543 (G4).
Veden, Terek, Cauc. **23**-874 (II. D-E2).
Vederlaks, Fin. **23**-872 (C7).
Vedersö, Den. **8**-24 (A2).
VEDETTE (dict.) **27**-965a.
Vedinium, It. **11**-237a.
Vedla: battle (1518) **6**-275b.
Vednik, mts., Aus.: *see* Fruska Gora.
Vedrá, Bal.Is. **25**-530 (F3).
Vedrenne-Barker management **8**-537a.
Vedro **28**-490a; **28**-494b.
Vedrosha: battle (1500) **15**-88d.
Vedum, Swed. **26**-190 (B2).
Veedersburg, Ind. **14**-422 (C4).
—, N.Y.: *see* Amsterdam, N.Y.
Veen, Martin Jacobsz van: *see* Heemskerk.
—, Otto van: *see* Voenius.
Veendam, Holl. **13**-588 (D1); **13**-618a.
Veenhörn, Holl. **13**-588 (C2).
Veenhuizen, Holl. **13**-588 (D1), **8**-574a; beggar colony **27**-838b.
Veenwouden, Holl. **13**-588 (D1).
Veerburg, Holl. **13**-588 (B2).
VEERE, Holl. **27**-965a; **13**-588 (A3); **13**-608c.
Vefsen, fjord, Nor. **19**-800 (B2); **19**-800b.
—, riv., Nor. **19**-800 (C2); **19**-801a.
VEGA, GARCILASO DE LA (historian) **27**-965c; **25**-436a.
—, **GARCILASO DE LA** (soldier and poet) **27**-965a; **25**-582a; **20**-896d.
—, G. von: circle quadrature **6**-386d; **27**-280d; mathematical tables **26**-326d foll.
— de Armijo, marquis de la **25**-567b.
Vega, Colo. **6**-722 (C2).
—, isl., Nor. **19**-800 (B2).
Vega (Lyrae, α: astron.) **17**-177c; **7**-12 (map); **25**-788b; **16**-874c; **21**-533b.
"Vega" (ship): *see under* Nordenskiold, N. A. E.
Vega Alta, P.R. **22**-124 (B1); **22**-125a.
— Baja, P.R. **22**-124 (B1).
VEGA CARPIO, LOPE FELIX de **27**-965c; **25**-583b; **8**-507d; **5**-765a.
Vega de Chapelco, dist., Arg. **20**-900c.
— del Oro, dist., Port. **27**-489b.
— de Pas, Sp. **25**-530 (D1).
Vegamian, Sp. **25**-530 (C1).
Vega Real, plain, W.I. **12**-824 (B1); **12**-825a; **24**-194d.
Vegas, mts., Nev. **5**-8 (F3).
—, val., Nev. **5**-8 (F3).
Vegas (fields) **7**-599a; **25**-532d.
Vega Sound, str., Green. **12**-543 (G3).
Vegesack, Ger. **4**-493a; **4**-493b.
VEGETABLE **27**-967b; digestibility **8**-217c; early cultivation **9**-27b, **26**-682d, **4**-592c; modern **13**-776b.
— Creek, N.S.W.: *see* Emmaville.
— fats **20**-45a.
— gelatin: *see* Gluten.
— irritants **21**-894d.
— ivory **15**-94d; **20**-640d; endosperm **11**-259c; in Colombia **6**-705a.
— **MARROW** **27**-967c.
— oils **20**-45a.
— parchment **5**-609b.
— waxes **20**-51b.
— wool **8**-917c.
VEGETARIANISM **27**-967d; Carthusians **5**-432c; in Early Church **9**-869d; gout **12**-291b; Hyperboreans **14**-200a.
Vegetation: Adonis, god of **1**-212c; **12**-321b; **23**-773b; Osiris **9**-52a.
Vegetative reproduction: *see* Reproduction.
VEGETIUS (Flavius Vegetius Renatus) **27**-968c; **4**-712a; **8**-327a.
—, Publius **28**-3a.
Veggerlöse, Den. **8**-24 (D4).
Vegio, Maffeo **6**-453a.
Veglia, Aus. **3**-4 (D4); **27**-968d.
—, It. **26**-242 (E4).
VEGLIA, isl., Aus. **27**-968d; **3**-4 (D4); **15**-26 (E2); **2**-970c; **6**-85d.
Vegliote dialect **14**-891c.
Vegre, riv., Fr. **10**-778 (D4); **24**-224b; **9**-901a.
Vegtamskviða **8**-922b.
Veguellina, Sp. **25**-530 (C1).
Veguera cigars **26**-1040b.
Vehar, lake, Bombay **26**-725b.
Veh Ardashir, Turk.As.: *see* Seleucia (on Tigris).
Vehicle: *see* Carriage.
Vehling casting machine **14**-816b.
Vehmgericht: *see* Fehmic Courts.

Vehrkāna : *see under* Hyrcania.
Vei, tribe : *see* Vai.
Veidivötn, lakes, Ice. : *see* Fiskivötn.
VEII, It. **27**-969a; **15**-26 (B5); **23**-619c foll.; tomb paintings **9**-856a.
VEIL **27**-969b; **7**-228d; **9**-31c.
—, People of the : *see* Tuareg.
Veinacs, cape, Den. **8**-24 (C4).
Vein-quartz **22**-717a.
VEINS (anat.) **27**-969c; **27**-930d; pathology **27**-946a; phlebitis **21**-446d.
VEINS (geol.) **27**-972a; **18**-508a; **18**-513d; **3**-613c.
— of Galen (anat.) **4**-398c.
Veintemilla (general) **8**-919d.
Veira, isl., Scot. **20**-280c.
Veirö, isl., Den. **8**-24 (D3).
VEIT, PHILIPP **27**-973d.
Veitch, James **4**-513b.
—, **JOHN** **27**-973d; **4**-677a.
Veitschalp, mts., Aus. : *see* Hoch-veitsch.
Vejdovsky, F. : *see* Vezhdovsky.
Vejen, Den. **8**-24 (B3).
VEJER DE LA FRONTERA, Sp. **27**-974a; **25**-530 (B-C4).
Vejle, Den. **8**-24 (B3).
—, co., Den. **8**-24 (B3); **8**-27a.
—, fjord, Den. **8**-24 (B3).
Vejovidae **2**-303d.
Vejuco : *see* Guaco.
Vekol, Ariz. **2**-544 (C3).
Veksö, Den. **8**-24 (E3).
Vela, Blasco Nunez de **21**-275a.
—, Vincenzio **24**-513a; **27**-418b.
Vela, cape, Colom. **6**-701 (B1).
Vela (astron.) **7**-14a.
— de Coro, Venez. **10**-138b; **7**-184b.
—, Torre de la, Alhambra, Sp. **1**-657b.
Velabrum, Rome **23**-600c.
Veladero, mt., Arg. **1**-963b.
Velainiellidae **11**-510b.
Velamen **20**-171d.
Vélan, mt., Alps **26**-242 (C5); **1**-743b; **1**-749a.
Velanidia, Gr. **12**-424 (E4).
Velaora, Gr. **12**-424 (C1).
Velarde, José **25**-586c.
Velarde, N.Mex. **19**-520 (E1).
VELARIUM (awning) **27**-974a.
— (zool.) **24**-521d.
Velas, Az. **3**-83 (2); **3**-84d.
—, cape, C.R. **5**-678 (C-D5).
Velasco, Juan de : *see* Frias, Juan de Velasco.
—, José Miguel de **4**-176a.
—, Luis de **18**-337d.
Velasco, Tex. **26**-690 (M7).
—, mts., Arg. **2**-462 (C2); **23**-360a.
Velas Latinas, isls., Pac.O. : *see* Marianas.
Velasquez, D. R. de Silva y : *see* Velazquez.
Velata **8**-880a.
Velathri, It. : *see* Volterra.
Velavan, India : *see* Verawal.
Velay, dist., Fr. **10**-802 (map).
—, mts., Fr. **10**-778 (F5); **13**-72c.
Velazquez, Diego (explorer) **7**-603a; **7**-205d.
—, **DIEGO RODRIGUEZ DE Silva y** (painter) **27**-974a; **10**-374d; **20**-473c; portraiture **20**-476a, **22**-129a.
—, J. **28**-148c.
Velbert, Ger. **11**-808 (I. j-k6).
Velber Tauern, pass, Alps **1**-746c; **24**-104d.
— Thal, val., Aus. **24**-104d.
Velbushka Banya, Bulg. : *see* Kiustendil.
Velbuzhd, Bulg. : *see* Kiustendil.
Velchanos **19**-885b.
Veld **25**-467c.
— (bot.) **20**-152a.
Velde, H. van der **20**-508c.
—, van de : *see* Vandevelde.
Veldeke, Heinrich von : *see* Heinrich von Veldeke.
Velden, Ger. **11**-808 (D4).
Veldes, Aus. **3**-4 (D3); **5**-365d.
Veldre, Nor. **19**-804 (D2).
Velebit, mts., Hung. **3**-4 (D4); **7**-772c; **7**-472a.
Velechik, mt., Turk. **27**-426 (A2); **1**-482b.
Veleda (prophetess) **26**-685b; **6**-403a.
VELEIA, It. **27**-978b; **15**-26 (B2); **14**-635a; **14**-637b.
Velella **14**-157d.
Velellidae **14**-160a.
Velelo, tribe **15**-628a.
Velentsiko, Gr. **12**-424 (C1).
Veles, Turk. : *see* Koprülü.
Veles (myth.) **25**-230d.
Velestiniul, Rhiga : *see* Rhigas, Constantine.
Velestino, Gr. **12**-424 (D1); **26**-843c; battle (1897) **12**-424d.
Velestinos, Rhigas of : *see* Rhigas, Constantine.
Veleta, mt., Sp. **25**-530 (D4); **25**-57c.
—, val., Sp. **25**-57c.
Veletova, Russ. **23**-872 (C8).
Velez, Colom. **6**-701 (B3); **6**-707a.
—, riv., Sp. **27**-978d.
— Blanco, Sp. **25**-530 (D4); **1**-714c.
— de Gomera, Can.Is. **19**-283a; **24**-185c.
— de Gomera, Mor. : *see* Badis.
Velez de Guevara (de Santander), Luis : *see* Guevara, Luis Velez de.
Velež, mts., Aus.Hung. **3**-4 (E5).
VELEZ-MALAGA, Sp. **27**-978c; **25**-530 (C-D4).
Vélez Rubio, Sp. **25**-530 (D-E4); **1**-714c.
Velha Pobre, Braz. **25**-487c.
Velhas, riv., Braz. **4**-440 (H6); **24**-198b.
— Conquistas, dist., India **12**-159d.
Velhynians, people **28**-195b.
VELIA (Elea), It. **27**-978d; **15**-26 (E4); **20**-851b; **17**-318c; coins **19**-878a.
—, hill, Rome **23**-589b.
Veliaminovsk, Russ. : *see* Velyaminovsk.
Veliger larva : of mollusca **18**-674a, **18**-674c (fig.); of trochus **11**-506b.
Velika Gorica, Hung. **3**-4 (D4).
— Plana, Serv. **24**-686 (B-C1).
— Shkola, university, Serv. **24**-690c; **3**-682a.
— Skupshtina **24**-690a.
Velikaya, riv., Russ. **22**-542b; **23**-880c.
Veliki-Gradishte, Serv. **24**-686 (C1).
Velikij Gorod, Russ. : *see* Bolgari.
Veliki Kap, mt., Herz. **4**-279c.
— Plana, Serv. **24**-686 (C2).
— Voyn, isl., Serv. **3**-681d.
Velikiye Luki, Russ. **23**-872 (D4); **22**-542c.
Velikiyknaz : *see* Grand duke.
Velikiy-Novgorod, Russ. : *see* Novgorod.
Veliko-Knyazheskaya, Russ. **23**-872 (F6); **8**-412c.
Veliko-Polyans, race **21**-632b.
Velikorusskij : *see* Great Russian dialects.
Velilla de Ebro, Sp. **25**-530 (E2).
Velina, tribe **16**-271d.
Vélines, Fr. **10**-778 (E5).
Velinjam, India **14**-382 (G15).
Velino, falls, It. **26**-647a.
—, mt., It. **15**-4 (D3); **2**-162a.
—, riv., It. **15**-4 (D3); **2**-162a; **26**-647a; **26**-578b.
Velinoselo, Bosn. **3**-4 (F4).
Velinus, lake, It. **26**-647b; **8**-49d.
—, riv., It. : *see* Velino.
Veliocassi, tribe **19**-749b; **23**-769c.
Vélissa, Turk. : *see* Koprülü.
Velites **2**-585b; **23**-472a; **2**-595a.
Velitrae, It. : *see* Velletri.
VELIUS LONGUS (grammarian) **27**-978d.
Velizh, Russ. **23**-872 (D4); **28**-146d.
Velizy, Fr. **10**-778 (B6).
Velka Kappa, mt., Alps **1**-747d.
Vellabori, people **14**-757c.
Vellala, tribe **7**-91d.
Vellalars (caste) **26**-1000a.
Vella Lavella, isl., Pac.O. **20**-436 (I9); **25**-364c.
Vellar, riv., India **14**-382 (H14); **2**-447c; **17**-288d.
Velleda : *see* Veleda.
VELLEIUS PATERCULUS, Marcus **27**-979a; **16**-256a; **16**-265b.
Vellela **14**-160a.
VELLETRI (Velitrae), It. **27**-979b; **15**-4 (G2); **15**-26 (C6); **25**-805d; battle (1744) **3**-42b; improvement farms **15**-11b; inscription **28**-197c; Roman conquest **23**-624c.
Vellinge, Den. **8**-24 (A2).
Vellinghausen, Ger. : battle (1761) **12**-341d.
VELLORE, India **27**-979d; **14**-382 (H13); **3**-749b.
Velloziae **21**-781d.
Vellum, India **23**-433c.
Vellum **20**-799a; **17**-618d; fan mounts **10**-169b; palimpsests of **20**-633a; percussion instruments **8**-598b.
Vellum stone : *see* Rock-crystal.
Velly, Paul François **2**-80d; **10**-905d.
Velma, Ill. **14**-304 (C4).
—, Okla. **20**-58 (D3).
Veloce Line (steamships) **25**-855c.
Velocipede **7**-682d.
Velocity **17**-974b; **13**-558a; **27**-736c; angular **17**-983d, **17**-985d; coefficient of **14**-38d; diagram **8**-147c.
— curve **14**-70d.
— function **14**-121b.
— grade : *see* Momentum grade.
— image **17**-1009b.
— of light : *see* Light (velocity of).
— of sound : *see* Sound (velocity of).
Velorita **16**-123b.
Velorum γ (astron.) **25**-788c.
Velouchi, mt., Gr. **12**-424 (C2); **12**-426c.
"Velox" (warship) **24**-916c.
Velp, Holl. **2**-629c; **11**-557c.
Velpeau, Alfred **26**-129b; **18**-930d.
Velpen, Ind. **14**-422 (C8).
Velsk, Russ. **23**-872 (F3); **28**-197b.
Veltae, race **25**-229b.
Velthen (Veltheim), J. **8**-540a.
Veltuna, It. : *see* Vetulonium.
Veluchi, mt., Gr. : *see* Velouchi.
Velum (zool.) : hydromedusae **14**-141d; mollusca **18**-674a; trochosphere **16**-225d.
— interpositum (anat.) **4**-398c; **4**-392d.
— transversum **14**-265b.
Velutina **11**-516b.
Veluwe, dist., Holl. **13**-588 (C2); **11**-557c.
Velva, N.Dak. **19**-780 (D1).
—, riv., Russ. **23**-872 (I3).
VELVET **27**-979d; **5**-393c; 15th cent. patterns **28**-453a; finishing **10**-381d; Japanese pictures on **15**-183a; weaving **28**-442b.
— (of deer's antler) **7**-922b.
— Book : *see* Barkhatnaya Kniga.
— duck **24**-411d.
VELVETEEN **27**-980a; **28**-442b (fig.); **10**-381d.
Velvet sponge **25**-731b.
— swimming crab **7**-357 (fig.).
Velyaminovsk, Russ. **4**-25c.
—, dist., Russ. **4**-25c.
Velye, lake, Russ. **23**-872 (D8).
Vel Ynys : *see* Anglesey.
Velzen, Holl. **19**-785b.
Vemb, Den. **8**-24 (A2).
Vemmelöv, Den. **8**-24 (D3).
Vena, riv., India **24**-227c.
Venable, Nathaniel **12**-902b.
Venables Vernon, George F. A., Baron Vernon : *see* Vernon.
Vena cava **27**-971c; **27**-970b; **14**-263d.
Venado, Mex. **24**-152d.
—, mt., Cal. **5**-8 (C3).
— Tuerto, Arg. **2**-462 (D3).
Venae comites (anat.) **27**-969c.
— minimae cordis (anat.) **13**-130b.
VENAFRUM (Venafro), It. **27**-980a; **15**-4 (D4); **15**-26 (E4); roads **5**-123a.
Venaissin, Comtat, prov., Fr. : *see* Comtat-Venaissin.
Venango, Kan. **15**-654 (D2).
—, Pa. **21**-106 (B2).
—, fort, Pa. **11**-34a; **22**-66a.
— Co., Pa. **21**-106 (C3).
Venantius Fortunatus : *see* Fortunatus.
Vénasque, Port de, pass, Fr. **13**-72a.
Venatio **11**-445d.
Vence, Jeanne Bonaparte, marquise **4**-196d.
Vencedora, Sp. : *see* Huesca.
Venceslas (Rotrou) **23**-462b.
Venda, mt., It. **15**-5b.
VENDACE **27**-980a.
VENDEE, dept, Fr. **27**-980b; **10**-778 (D4); **10**-865d.
—, plain, Fr. **27**-980c.
—, riv., Fr. **10**-608c.
—, Bocage of **4**-102a.
—, **WARS OF THE** **27**-980d; **11**-162c; **10**-854d; **24**-191a.
Vendelgies, Fr. **16**-353a.
Vendelus, bay, Cey. **14**-382 (I16).
VENDEMIAIRE **27**-981d.
— 13, insurrection of (1795) **11**-166c; **10**-858a.
"Vendémiaire" (submarine) **24**-921b.
VENDETTA **27**-981d; Albania **1**-484b; Corsica **7**-202a; Greece **12**-433a, **1**-478a.
Vendeuvre-sur-Barse, Fr. **10**-778 (G3).
Vendidad **28**-967d; **21**-221a.
Vendidad Sadé **13**-332a.
Vendôme, César, duc de **27**-982c; **1**-493c; **9**-804a.
—, Emmanuel de Bourbon, duke of **27**-982c.
—, Francis de Bourbon, count of **12**-699b.
—, Louis de Bourbon, count of **27**-982c.
—, **LOUIS JOSEPH**, duc de **27**-982a; wars **25**-600b, **17**-739b, **10**-845b.
—, Matthew of (abbot of St Denis) : *see* Matthew (of Vendôme).
—, Philippe de **25**-603a.
VENDÔME, Fr. **27**-982b; **10**-778 (E4); **1**-25b.
—, square, Paris **20**-804 (C1); **20**-806a; **2**-415b.
Vendômois, riv., France **16**-926a.
Vendor and Purchaser Act (1874) **7**-49d.
Vendor's lien **16**-595a.
Vendramini, Andrea **16**-458b.
Vendramini-Calerghi, palace, Venice **2**-411c; **2**-397 (Pl. IV.); **16**-932b.
Vendrell, Sp. **25**-530 (F2).
Vendres, port, Fr. **22**-689b.
Vendsyssel, dist., Den. **15**-609b.
Venecia, gulf, Venez. : *see* Maracaibo.
Venedae, tribe, Eur. **23**-648 (E1); **25**-229b; **12**-273a.
Venediger, Gross, mt., Alps : *see* Gross Venediger.
Venedocia, O. **20**-26 (B3).
—, dist., Wales : *see* Gwynedd.
Venedotian code **13**-838d.
Venedy, Ill. **14**-304 (C5).
VENEER **27**-982c; **20**-861d.
Venendaal, Holl. **27**-823c.
VENER, lake, Swed. **27**-982d; **26**-190 (B2); **9**-910c; **26**-197c.
Venerabilem (papal bull) **9**-174b.
VENERABLE **27**-983a; **5**-192d.
Veneracea **16**-123c.
Veneration **21**-537a.
VENEREAL DISEASES **27**-983a; gonorrhoea **20**-772b, **27**-983b; Hunter **13**-942a; prostitution **22**-460b, **22**-463a; syphilis **20**-787d, **27**-984a.
Venericardia **16**-123a; **9**-663d.
Venerid **26**-216a.
Veneridae **16**-123d.
Veneris crinis : *see* Venus' hair stone.
—, spiritus **28**-96b.
Venerocolo, pass, Alps **1**-747a.
Vénerque, Fr. **10**-778 (E6); **13**-72b.
Venersborg, Swed. **26**-190 (A-B2); **15**-544a.
Venerupis **16**-123d.
Venery **10**-645a.
Venesection : *see* Blood-letting.
Veneti, tribe, Fr. **27**-986a; **4**-940a.
VENETI, people, It. **27**-986a; **27**-995b; **14**-495b; **15**-25c; **14**-891d; Germany **11**-830d, **25**-229b; inscriptions **14**-630d.
Venetia, Pa. **21**-106 (B5).
VENETIA, compartment, It. **27**-987b; **15**-4 (C2-D1); **15**-26 (C2-D1); **15**-2d; Austrian occupation (1848) **15**-52c; cession (1866) **24**-714d; cotton manufacture **7**-299a; emigration **15**-8b; floods **13**-873a; peasant proprietorship **15**-11a; silk production **15**-10a.
— and Istria, prov., It. **23**-649 (D2).
Venetian Academy **17**-625b.
— dentil **18**-934a; **2**-393c.
— glass **12**-101a; **12**-98 (Pl. I.); **8**-583 (Pl. II. fig. 1); manufacture **12**-90d, **27**-1001b.
— mirrors **18**-576b.
— painting **20**-471d; **20**-472c; **20**-495c.
— point (lace) : *see* Point de Venise.
— red **21**-598d; **21**-599d.
— state papers, calendar of : see *Calendar of Venetian State Papers.*
— sumach (dye stuff) : *see* Zante fustic.
— sumach (shrub) : *see* Smoke tree.
— sumach (tanning material) **16**-332d.
— swell **21**-565a.
— white **16**-319b.
— window **28**-713b.
Venetiko, isl., Gr. **12**-424 (C-D4); **18**-190d.
VENETTE, JEAN DE **27**-987d.
Venev, Russ. **23**-872 (E5).
Veneziano, Agostino **17**-683a.
—, Domenico (Italian painter) **24**-567c; **10**-930b; **5**-463d.
Venezia, Palazzo di, Rome **23**-612 (A3 and C2); **2**-412a.
Veneziaspitze, mt., Alps **1**-746d.
Venezuela, Venez. : *see* Coro.
—, gulf, Venez. : *see* Maracaibo.
VENEZUELA, republic, S.Am. **27**-988a; **27**-989(map); canesugar **26**-47c; cocoa **6**-630a; coffee **6**-647d; cotton **7**-278d, **7**-274c; flags **10**-462c; survey maps **17**-653b.
—: *History* **27**-993b; blockade (1902–1903) **20**-433d; boundary disputes (1883) **6**-711c, **27**-730c; Colombian treaty (1896) **6**-713a; declaration of Paris (1856) **7**-914c; foreign claims arbitration (1903) **2**-328d; U.S. negotiations (1901–1902) **27**-731d.
Vengeance, Stone of, Onich, Scot. **25**-963b.
Vengetinder, mt., Nor. **23**-688c.
Vengi, India **14**-400d; **1**-895a; **14**-625d.
VENGURLA, India **27**-995a; **14**-382 (E12); **24**-257c.
— Rocks (Burnt Is.), isls., India **14**-382 (E11-12); **27**-995a.
Venhuizen, Holl. **13**-588 (C2).
Veniaminov, John : *see* Veniaminov, Ivan.
Venice, *Cal.* **5**-8 (*D5*); **17**-13a.
—, Fla. **10**-540 (*D4*).
—, Ga. **11**-752 (*D3*).
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Vermelho (zool.) **4**-449a.
Vermeln, lake, Swed. **26**-190 (B2).
Vermenton, Fr. **10**-778 (F4).
Vermes **28**-832a.
Vermetidae **11**-516a.
Vermetus **11**-516a.
Vermicella **25**-291d.
VERMICELLI **27**-1024c.
Vermiculated work (masonry) **17**-846a; **23**-937a.
Vermiculatum, opus **18**-884a.
Vermiculites **6**-257a.
Vermiform appendix **1**-664d; **1**-666b; **2**-218b (fig.).
Vermiformia **2**-310d; **2**-299b.
Vermigli, Catherine **27**-1025a.
—, **PIETRO MARTIRE** **27**-1024c; **21**-897a.
Vermilion, Can. **1**-500 (B2).
—, Can. **20**-114 (A1).
—, Ill. **14**-304 (E4).
—, O. **20**-26 (F2).
—, S.Dak. **25**-506 (I5); **25**-509c.
—, bay, La. **17**-54 (B-C4).
—, dist., La. **17**-54 (B4).
—, harb., O. **9**-742a.
—, lake, Minn. **18**-550 (E3); **19**-549c.
—, mts., Minn. **18**-550a; **8**-653c; **2**-361c.
—, riv., Can. **1**-500 (B2).
—, riv., Ill. **14**-304 (D3).
—, riv., Ill. **14**-304 (E3-4).
—, riv., La. **17**-54 (B4).
—, riv., Minn. **18**-550 (E2).
—, riv., O. **20**-26 (F2); **20**-26a.
—, riv., S.Dak. **25**-506 (H3).
—, riv., S.Dak. **25**-506 (I4-5).
VERMILION (pigment) **27**-1025b; **21**-598b.
Vermilion Bay, Can. **20**-114 (A1).
— Bluffs, mts., Colo. **6**-722 (B1).
— Cliffs, mt., Ariz. and Utah **2**-544 (C1); **27**-813c; **27**-621d.
— Co., Ill. **14**-304 (E3).
— Grove, Ill. **14**-304 (E4).
— Heights, Ill. **7**-824a.
Vermillion, Kan. **15**-654 (F1).
—, Utah **27**-814 (B5).
— Co., Ind. **14**-422 (C5).
— Creek, riv., Wyo. **28**-874 (D4).
VERMIN (dict.) **27**-1025b.
Verminck (Marseilles merchant) **19**-676d.
Verminous bronchitis: *see* Husk.
Vermiporella **20**-525b.
Vermis **4**-394b.
Vermland, co., Swed. **26**-190 (B2); **26**-192a; **5**-927a.
Vermont, Ill. **14**-304 (B3).
—, Ind. **14**-422 (E3).
VERMONT, state, U.S. **27**-1025b; **19**-490 (map); council of censors **5**-662a; finance **27**-1028b, **3**-346b; forgery law **10**-663c; governors, list of **27**-1029a; liquor laws **16**-767c; newspapers of **19**-567d; Personal Liberty law (1850) **11**-289c; payment of members **20**-980a; university **4**-837c, **1**-691c.
— sheep **18**-168a.
Vermontville, Mich. **18**-372 (E-F7).
VERMOREL, A. J. M. **27**-1029d.
VERMOUTH **27**-1029d.
Vermunt, pass, Alps **26**-242 (I3); **1**-745d.
Vermuyden, Cornelius **26**-880a; **10**-257b.
Vermuyden's Drain, Hunts.: *see* Forty Foot.
VERNACULAR (dict.) **27**-1029d.
Vernag, India **14**-376 (F3).
Vernal, Utah **27**-814 (E2).
Vernal equinox **9**-724a.
Vernamo, Swed. **26**-190 (C3).
Vernation (bot.) **16**-328b.
Vernayaz, Switz. **26**-242 (C4); **27**-839b.
Vernaz, pass, Alps **26**-242 (B4).
Verndale, Minn. **18**-550 (B-C4).
VERNE, JULES **27**-1030a.
—, Paul **27**-1030b.
Verne, Ind. **14**-422 (C7).
—, hill, Dorset. **22**-121c.
Verneau, R. **12**-650b.
Vernègues, Fr. **4**-313b.
Vernel, mt., Alps **1**-747b.
Vernela, pass, Alps: *see* Zadrell, Fuorcla.
Vernerin (Fr. painter) **20**-890d.
Verner's law **26**-673d.
Verner von Heidenstam, C. G. **16**-510d.
VERNET, ANTOINE Charles Horace **27**-1030c.
—, **CLAUDE JOSEPH** **27**-1030b.
—, **EMILE JEAN HORACE** **27**-1030d.
—, Thérèse: *see* Albert, Madame.
Vernet, Fr. **22**-689b.
Verneuil, A. **11**-571a.
—, C. H. de B. d'Entragues, marquise de: *see* Entragues.
—, **P. É. P. DE** **27**-1031a.
VERNEUIL, Fr. **27**-1031a; **10**-778 (E3); **19**-750c; battle (1424) **9**-514a, **10**-822c.
"Verneuil" (horse) **13**-732c.
Verneuilia **8**-128a.
Vernevand, lake, Nor. **19**-804 (B1).
Vernéville, Ger. **18**-309 (plan).
Vernex, Switz. **18**-792d.
VERNEY (family) **27**-1031b.
—, Sir Edmund **27**-1031b; **12**-404c.
—, Luiz Antonio **22**-161a.
Vernhams Dean, Hants. **9**-420 (III. E4).
Vernicle **21**-603d.
VERNIER, PIERRE **27**-1031d.
Vernier, Switz. **26**-242 (A4).
Vernier (math.) **27**-1032a; callipers **27**-44b.
VERNIS MARTIN **27**-1032b; **10**-169b.
Vernisson, riv., Fr. **18**-760a.
Vernix caseosa **25**-189b; **14**-513a.
Vernon, Dorothy **12**-797c.
—, **EDWARD** (admiral) **27**-1032d; **3**-44a; **17**-719d.
—, Elizabeth, countess of Southampton: *see* Southampton.
—, Frédéric Charles Victor de **18**-2b.
—, Sir George **12**-797c.
—, George F. A. Venables-Vernon, baron **6**-91d.
—, George Venables, Baron Kinderton: *see* Kinderton.
—, G. F. **7**-445c.
—, H. M. **2**-50b; determination of sex **24**-747d; hybridization **14**-27b; variation **27**-908d.
—, James **27**-1032d.
—, Sir John **28**-699b.
—, Mary de: *see* Courtenay.
—, Sir William and Lady: brass of **4**-435 (Pl. II. fig. 3).
—, William de, earl of Devon: *see* Devon.
—, William Warren **7**-816d.
Vernon, Ala. **1**-460 (A2).
—, Can. **4**-600 (F3).
—, Cincinnati **6**-373c.
—, Colo. **6**-722 (H2).
—, Conn. **6**-952 (F2); **6**-952d.
—, Fla. **10**-540 (C6).
VERNON, Fr. **27**-1033c; **10**-778 (E3).
—, Ia. **14**-732 (F4).
—, Ill. **14**-304 (C5).
—, Ind. **14**-422 (F7).
—, La. **17**-54 (B1).
—, Mich. **18**-372 (G7).
—, N.J. **19**-502 (D1); **20**-106a.
—, O. **20**-26 (I2).
—, S.Dak. **25**-506 (I2).
—, Tex. **26**-690 (H1).
—, Utah **27**-814 (B2).
—, Vt. **19**-490 (B6).
—, dist., La. **17**-54 (A2).
— Center, Minn. **18**-550 (C7).
— Co., Mo. **18**-608 (B4).
— Co., Wis. **28**-740 (C5).
— Fork, riv., Ind. **14**-422 (F7).
— Hill, Va. **28**-118 (C4).
Vernonia, Oreg. **20**-242 (B2).
Vernonia **2**-746b.
— scorpioides **10**-558d.
Vernonnet, Fr. **27**-1033c.
Vernoux, Fr. **10**-778 (G5).
Vero, Ark. **2**-552 (C1).
—, Fla. **10**-540 (F4).
Veröcze, co., Hung.: *see* Virovitica.
Verodunum, Fr.: *see* Verdun.
Verolanuova, It. **15**-4 (B-C2).
VEROLI, It. **27**-1033c; **15**-4 (D4); **15**-26 (D4); **19**-393d; bishopric **15**-18c.
Veromandui, tribe **21**-576b.
VERON, LOUIS DESIRE **27**-1033d.
—, **PIERRE** **27**-1033d; **19**-574d.
Véron, dist., Fr. **14**-501c.
Verona, Ala. **1**-460 (D4).
—, Ark. **2**-552 (C1).
—, Aus.: *see* Beraun.
—, Ill. **14**-304 (D2).
VERONA, It. **27**-1033d; **15**-4 (C2); **15**-26 (C2); **15**-33b; Alaric defeated **1**-471a; architecture **2**-385a, **2**-412c, **5**-126d, **24**-154a; Austrian fort **10**-695a; battle (489) **20**-6b; cathedral **2**-393a; Charlemagne captures **10**-809c; council (1185) **13**-884d.
—, **CONGRESS OF** (1822) **27**-1036d; **1**-809d; **9**-936b; British policy **5**-188a, **16**-972a.
—, Ky. **15**-740 (D2).
—, Miss. **18**-600 (D1).
—, Mo. **18**-608 (C5).
—, N.Dak. **19**-780 (F3).
—, N.J. **19**-502 (A2); **19**-461a.
—, O. **20**-26 (A5).
—, Pa. **21**-106 (E6-7).
—, Wis. **28**-740 (D6).
—, mt., Alps **26**-242 (H4); **1**-745a.
—, prov., It. **15**-6d.
Verona Illustrata (Maffei) **17**-299d; **14**-909b.
VERONAL **27**-1037c.
Verona Latin Fragments **2**-200a.
Verona, Mark of, anc. dist., Ger. **11**-834 (map).
— Society for African Missions **18**-590d.
Veronensis, Codex **3**-881b.
Verones, tribe: *see* Berones.
Veronese, Paolo: *see* Paul Veronese.
VERONICA, ST **27**-1037d; **23**-60d.
Veronica (bot.) **24**-485c; **13**-773a; **12**-759c; corolla **10**-564d, **22**-5c (fig.); endosperm **11**-259b; in New Zealand **21**-782b; pollination **22**-5c.
— beccabunga: *see* Brooklime.
— crinita **4**-280b.
— decussata **10**-152c.
— hederifolia **10**-554b; **10**-556b.
— longifolia **28**-915b.
Veronica Giuliani (nun) **25**-918c.
Veronius, Francis **8**-383a.
Verplanck, Giulian Crommelin **1**-839a.
Verplanck, N.Y. **19**-596 (C4).
—, pt., N.Y. **25**-967a.
Verraco, pt., P.R. **22**-124 (A2).
Verrajöchl, pass, Alps **1**-746a.
Verrati, Giuseppe **3**-494b.
Verrazano, Giovanni da **1**-807d; **19**-476b; **19**-603c.
VERRES, GAIUS **27**-1038a; **25**-30c.
Verres, It. **15**-4 (A2).
Verret, lake, La. **17**-54 (a7).
Verri, Alessandro **19**-834d.
Verria, Turk.: *see* Karaferia.
Verrières, forest, Fr. **10**-778 (B6).
— le-Buisson, Fr. **10**-778 (B6).
Verrina (Italian conspirator) **10**-329a.
Verrio, Antonio **28**-715a; **8**-130c.
VERRIUS FLACCUS, MARcus **27**-1038b; **10**-294d; lexicon of **6**-449b.
VERROCCHIO, ANDREA DEL **27**-1038c; Botticelli **4**-307a; Colleoni statue **24**-494 (Pl. I.); Leonardo da Vinci **16**-444c.
Verrole, India: *see* Verawal.
Verrua, Jeanne Baptiste d' Albert de Luynes, comtesse de **28**-26a.
Verruca, citadel, Aus.: *see* Doss Trento.
Verruca (med.): *see* Wart.
— quadrangularis (zool.) **26**-906b.
Verrucano **21**-177d.
Verrucaria calciseda **16**-583c.
Verrucariaceae **16**-584d.
Verrucariae **13**-335c.
Verrucidae **26**-905d.
Verrugas **28**-336b.
Ver sacrum **23**-580a; **17**-761b.
Versailles, Conn. **6**-952 (G3).
VERSAILLES, Fr. **27**-1039b; **10**-778 (A6); races at **13**-737a.
—: *Palace* **27**-1039c; architecture **2**-415a; banquet (Oct. 1st, 1789) **11**-156d, **10**-853c; bed at **3**-612d; Caffieri's work **4**-945b; massacres (1792) **11**-161a; maze at **16**-33c; preliminaries of peace (1871) **10**-873d; Vernet painting in **27**-1030d.
—, Ill. **14**-304 (B4).
—, Ind. **14**-422 (G6).
—, Ky. **15**-740 (D2).
—, Mo. **18**-608 (D3).
—, O. **20**-26 (A4).
—, Treaty of (1756) **9**-932a; **9**-284c.
—, Treaty of (1783) **27**-682b; **15**-295b; **13**-603c; Loyalists' position **17**-79d; Newfoundland fishing rights **19**-483c; West African settlements **11**-438b, **24**-642b; West Indies **12**-578d, **24**-50d.
Versailles laurel **16**-283b.
Versam, Switz. **26**-242 (G3).
Versatile (bot.) **10**-567b.
Versatzaemter: *see* Mont de Piété.
VERS DE SOCIETE **27**-1040d; **11**-128d.
Verse, riv., Fr. **19**-842b.
VERSE **27**-1041c; **25**-579b; **25**-589a; alliteration **1**-697a; assonance **2**-786c; blank verse **4**-41d; early Greek forms **12**-508b, **4**-107a; rhyme **23**-274b; rhythm **23**-277a. For specific verse forms: *see* Ballade, Rondeau, Sonnet, &c.
VERSECZ, Hung. **27**-1047c; **3**-4 (G4).
—, canal, Hung. **13**-895c.
Verseghy, Francis **13**-928a.
Vershambek, mts., Arm. **2**-565 (C1).
Vershire, Vt. **19**-490 (C4).
Versicles (Breviary) **4**-505b.
Versiera (curve): *see* Witch of Agnesi.
Versija, Isla, N.G.: *see* Warsia.
Vers l'Eglise, Switz. **26**-242 (C4).
Vers libre **11**-147c.
Versluy's cartilage **23**-160d.
Verso (dict.) **3**-910a; **17**-619b.
Versoix, Switz. **26**-242 (A4); **11**-587b.
Versorium: *see* Electrical needle.
Verst, Den. **8**-24 (B3).
Verst (versta, measure) **28**-490a; **28**-494b.
Verstanklahorn, mt., Alps **1**-745d.
Verstanklathor, pass, Alps **1**-745d.
Verstegen, Richard: *see* Rowlands, Richard.
Verstraete, Theodore **20**-507c.
Versuch die Metamorphose der Pflanzen zu erklären (Goethe) **12**-184d; **21**-773d.
Vert (her.) **13**-323b.
Vertainspitze, mt., Alps **1**-746d.
Vert antique: *see* Verde antico *and* Porfido verde antico.
Vertault, Fr. **7**-249a.
Vertavillo, Sp. **25**-530 (C2).
Vert d' iris: *see* Verdelis.
Verte, bay, Can. **19**-464d.
—, bay, Nfd. **19**-479 (B-C1).
Vertebra dentata: *see* Axis bone.
— prominens **25**-170a.
Vertebrae **25**-169c; **25**-671a.
Vertebral column: *see* Spine.
Vertebralina **10**-633b; **10**-635b (fig.).
Vertebraria **20**-540b; in Borneo **4**-258a; in Tasmania **26**-439d.
VERTEBRATA **27**-1047d; **28**-1033c. *See also* Craniata *and* Chordata.
— gill clefts **14**-253a.
Verteillac, Fr. **10**-778 (E5).
Vertentes, mts., Braz. **4**-440b.
Verterae, Westm.: *see* Brough.
Vértes, mts., Hung. **3**-4 (F3); **13**-894d.
Vertex (lens) **16**-421d.
VERTICAL **27**-1051a; **8**-806a; practical determination of **2**-807b.
—, angle of the **27**-1051a.
— dial **8**-150c.
— escapement **28**-363b.
Verticil: *see* Whorl.
Verticillaster **10**-557b; **10**-559a (table).
Verticillate **16**-327a.
Verticillium **11**-335c.
Verticordia **16**-124c.
Verticordiidae **16**-124c.
Vertigo (mollusc) **11**-526b; **11**-526c.
— (physiol.) **19**-49a; **18**-129d.
Vertilium, Fr.: *see* Vertault.
Vertomannus, Ludovico di: *see* Varthema, Ludovico di.
Vertot, René, Abbé de **11**-137d.
Vertou, Fr. **10**-778 (D4).
Vert-pré, Morne, mt., W.I. **17**-802 (B1).
VERTUE, GEORGE **27**-1051a.
VERTUMNUS (myth.) **27**-1051b.
Vertus, Fr. **10**-778 (G3).
Veruela, P.Is. **21**-392a (E6).
Verukal, Ccy. **14**-382 (I.15).
Verulae, It.: *see* Veroli.
Verulam, James Walter Grimston, earl of **12**-604b.
Verulam, S.Af. **25**-466 (K7); **19**-255a.
VERULAMIUM, Herts. **27**-1051b; **4**-584 (C-D6); **23**-1012b; **19**-876c.
Verumontanum (anat.): *see* Crista urethrae.
Verus, Lucius **17**-694b.
—, M. Annius **12**-801c.
Verva, pass, Alps **1**-745b.
Vervaena, Gr. **12**-424 (D3).
Vervain **27**-1016a; **10**-556b; **10**-556c (fig.).
VERVET **27**-1051b.
VERVIERS, Belg. **27**-1051c; **3**-668 (G2).
Verville, Béroalde de **11**-125a.
Vervins, Fr. **10**-778 (F2); treaty (1598) **10**-832c.
Verwée, Alfred **18**-315a; **20**-507c.
Verwick, Wales **9**-428 (V. B3).
Verwood, Eng. **9**-420 (III. D5).
Verworn, Max **7**-710b; **3**-179b; **13**-351d.
Very, F. W. **18**-804b; **21**-477d.
—, Jones **1**-838c.
Very, pass, Alps **26**-242 (B5).
Veryan, Corn. **9**-430 (VI. C3); geology **7**-180a.
—, bay, Corn. **9**-430 (VI. C3).
— series (geol.) **7**-180a.
Very Wise, The (myth.): *see* Ut-Napishtim.
Verzasca, val., Switz. **26**-242 (F4); **26**-933c.
Verzy, Fr. **10**-778 (G3).
Vesali, India: *see* Vaisali.
Vesalius, Andreas **1**-928d; **26**-794b; circulatory organs **27**-926d; ventricular septum **13**-44a.
Vesc, Etienne de **5**-921b.
Vesci, William de, baron **16**-715c.
Vescia, It. **17**-867c.
Vesconte, Pietro **24**-197b; maps **17**-639d, **17**-641c (fig.), **17**-642a (fig.).
Vescovi, Faustina de' **26**-1001d.
Vesey, Ivo de **1**-719c.
Vesdre, riv., Belg. **3**-668 (G2); **3**-669b.
Veseleyville, N.Dak. **19**-780 (G1).
Veseli, Minn. **18**-550 (D6).
Veshen, Russ. **23**-872 (C8).
Vesi (bot.) **10**-336b.
Vesical diseases: *see* Bladder diseases.
VESICA PISCIS **27**-1051c; **10**-427c.
Vesicaria arctica (plant) **5**-147b.
Vesicating collodion **6**-694b.
Vesico-vaginal fistula **10**-438b.
Vesiculae seminalis (anat.) **23**-130b.
Vesicular column, posterior: *see* Clarke's column.
— emphysema: *see* Emphysema.
Vesi-järvi, lake, Russ. **23**-872 (B-C3); **10**-383b.
Vesilspitze, mt., Alps **1**-745d.
Ve Skerries, isls., Scot. **24**-412 (F1); **24**-855b.
Vesle, Rheims **23**-53d.
—, riv., Fr. **10**-778 (F3).
Veslena, riv., Russ. **23**-872 (H3).
Vesontio, Fr. **23**-648 (C2). *See also* Besançon.
VESOUL, Fr. **27**-1051c; **10**-778 (H4); **13**-74b.
Vesovius, mt., It.: *see* Vesuvius.
Vespa **28**-359a; wings **14**-177d (fig.).
— crabro: *see* Hornet.
— germanica: *see* German wasp.
— rufa: *see* Red wasp.
— vulgaris: *see* Wasp, common.
VESPASIAN **27**-1051d; **23**-652a; Flavia colony **4**-943d; Jews defeated (A.D. 67-69) **15**-401d; lex de imperio

For Key to Contractions, etc., see Page 1.

Vespasiani **14**-636b; library erected by **16**-547c; portrait bust **23**-476 (Pl. I. fig. 4); *Revelation, Book of* **23**-220d; rhetoric teaching endowed **23**-236a; Rome temple **23**-596c, **23**-592 (plan).
Vespasiano da Bistrici **3**-954c.
Vespasian Psalter **3**-894c.
Vespasian's Camp, anc. camp, Wilts. **1**-851c.
Vespasia Polla **25**-714b.
Vesper, Kan. **15**-654 (D1).
—, Oreg. **20**-242 (B2).
—, Wis. **28**-740 (D4).
— (star): *see* Hesperus.
VESPERS (liturgy) **27**-1052c; **13**-810a.
VESPERS, SICILIAN 27-1052d; **19**-183d; **25**-35b; effect on papacy **20**-698d.
—, the Montenegrin **18**-772b.
Vesper sparrow **17**-851d.
Vespertiliavus **6**-247a.
Vespertilio **6**-245c.
— leisleri: *see* Leisler's bat.
— noctula: *see* Noctule bat.
— pipistrellus: *see* Pipistrelle.
— serotinus: *see* Serotine.
— stampfii **16**-540a.
Vespertilioneae **6**-245c.
Vespertilionidae **6**-245a.
Vespertilioninae **6**-245b.
Vesperugo **6**-247a.
— maurus **1**-754b.
— noctula: *see* Noctule bat.
— pipistrella: *see* Pipistrelle.
Vespidae **28**-359a; **14**-177d.
Vespoidea: *see* Wasp.
VESPUCCI, AMERIGO 27-1053d; Brazilian expeditions **4**-454b; longitude determination **26**-985c.
—, Simonetta **4**-307c.
Vessagiri Vihara, temple, Ceylon **5**-783b.
VESSEL 27-1054c.
— cup **28**-361a.
— party: *see* Strict Baptists.
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— (Vihoa), pass, India **19**-43c.
—, riv., Bal. **14**-376 (B-C4); **3**-292c.
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Vilaras, John **12**-526c.
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—, S.Dak. **25**-506 (H4).
— Co., Wis. **28**-740 (D2).
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Vildanden (Ibsen): see *Wild Duck.*
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Vilich, Ger. **11**-808 (I. k7).
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Viliya (Vilia), riv., Russ. **23**-872 (B-C5); **28**-88d; **18**-104b.
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—, Jan **27**-195a.
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—, It. (Lucca) **17**-95c.
—, Switz. **26**-242 (G3).
—, isl., Az. **3**-83 (4).
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— Bella da Santissima Trindade de Matto Crosso, Braz. **17**-902d.
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Villablino, Sp. **25**-530 (B1).
Villa Boa de Goyáz : *see* Goyaz.
— Boim, Port. **25**-536 (B3).
Villabona, Sp. **12**-698c.
Villacañas, Sp. **25**-530 (D3).
Villa Carlos (George Town), Sp. **22**-122d.
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Villacastin, Sp. **25**-530 (C2).
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— de Bispo, Port. **25**-530 (A4).
— de Contas, Braz. : *see* Rio de Contas.
— de los Martires, Granada : *see* Martyr's Villa.
— **DEL PILAR,** Parag. **28**-68a; **2**-462 (E2).
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— do Iffante, Port.: *see* Sagres.
— do Porto, Az. **3**-83 (4); **24**-30b.
— do Rio Pardo, Braz. : *see* Rio Pardo.
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— (royal lands) **10**-908d.
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Villa Faustina, Suff. **4**-868c.
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Villa Flor, Port. **25**-530 (B3).
Villafra, lake, Peru **2**-236d.
Villa Franca, Az. **3**-84a.
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—, Sp. **25**-530 (E1); **12**-103a.
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— del Bierzo, Sp. **25**-530 (B1).
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Villa Franca do Campo, Az. **3**-83 (4); **24**-32a; **3**-84c.
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—, castle, Sp. **15**-446d.
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— Creek, riv., Ia. **28**-740 (B5).
— Creek, riv., Tex. **26**-690 (A-B8).
—, East, Conn. : *see* East Village.
— Improvement Society **25**-929d.
— nurses : *see* District nurses.
— of the Judge, Asia M. : *see* Chalcedon.
— Springs, Ala. **1**-460 (C2).
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— Grove, Colo. **6**-722 (D3).
— Grove, Ill. **14**-304 (D4).
Villaharta, Sp. **25**-530 (C3).
Villa Hayes, Parag. **2**-462 (E1).
— Hermanni, Hung. : *see* Nagyszeben.
— Hermosa, Mex. : *see* San Juan Bautista.
— Hilperti, Ger. : *see* Hildburghausen.
Villainage (Villain) : *see* Villenage.
Villaines-la-Juhel, Fr. **10**-778 (D3).
Villa Isabel, Braz. **23**-354a.
Villajoyosa, Sp. **25**-530 (E3); **1**-661c.
Villakarda, cape, Gr. **12**-424 (H4).
Villalar : battle (1520) **25**-550c.
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—, Marceto **17**-704d.
—, Ruy Lopez de : *see* Lopez.
Villalonga, Jorge, count de la Cueva : *see* La Cueva.
Villalpando, Francisco de **26**-1050a.
—, Juan de **24**-194a.
Villalpando, Sp. **25**-530 (C2).
Villalta, Andrés de **5**-765a.
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Villamanrique, Sp. **25**-530 (D3).
Villamarchante, Sp. **25**-530 (E3).
Villa Maria, Arg. **2**-462 (D3); **7**-141b.
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—, Thomas of : *see* Thomas (of Villanova).
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— Nova de Milfontes, Port. **25**-530 (A4); **1**-540c; battle (1706) **28**-227a.
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—, Juan de **17**-294a.
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— del Grao, Sp. **27**-846a.
— **Y GELTRU,** Sp. **28**-75d; **25**-530 (F-G2).
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—, Paul **6**-890c; **1**-138a.
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— St-Georges, Fr. **10**-778 (F3); **24**-588c; **20**-805c.
— sur-Cher, Fr. **10**-778 (F4); **6**-82a.
— **SUR-LOT**, Fr. **28**-85c; **10**-778 (E5).
— sur-Yonne, Fr. **10**-778 (F3); **28**-923b.
Villepinte, Fr. **10**-778 (C5).
Villepion-Terminiers, Fr.: battle (1870) **20**-292a.
Ville Platte, La. **17**-54 (B3).
Villeras, Fr. **10**-778 (B6).
Villere, lake, La. **17**-54 (c7).
VILLEROI, FRANCOIS DE Neufville, duc de **28**-85d; **12**-346a; **9**-883a.
—, Louis Joseph duc de **25**-600a; **22**-876b.
—, Nicholas de Neufville, seigneur de **10**-832c; **10**-834b; **10**-834c.
Villeroy and Boch **5**-758d.
Villers (Villers-Bretonneux), Fr. **10**-778 (F2); **25**-392d.
— Bocage, Fr. **10**-778 (D3).
— Cernay, Fr. **24**-575 (map).
— Cotterêts, Fr. **10**-778 (F3); ordinance of (1539) **11**-127b, **22**-238d.
— Cotterêts, forest, Fr. **1**-447c.
Villersexel, Fr.: battle (1871) **11**-14a.
Villers Farlay, Fr. **10**-778 (G4).
— **LA VILLE**, Belg. **28**-86a; **3**-668 (E2).
— St Paul, Fr. **20**-54a.
Villerupt, Fr. **10**-778 (G-H3).
Villes consulaires **6**-789c.
— franches **6**-790b.
— libres **6**-790b.
Ville-sur-Tourbe, Fr. **10**-778 (G3).
Villeta, Parag. **2**-462 (E2).
Villetaneuse, Fr. **10**-778 (C5).
VILLETTE, CHARLES, marquis de **28**-86a.
—, Reine Philiberte de Varicourt, marquise de **28**-203c.
—, Reteaux de **8**-164d.
Villette, Fr. **24**-575 (map).
Villette (C. Brontë) **4**-639c.
Villeurbanne, Fr. **10**-778 (G5); **17**-174d.
Villi, Abati Andrea **8**-506a.
Villi (anat.) **1**-665d.
Villia, lex **27**-264d.
Villicus: *see* Villicus.
Villiers, dukes of Buckingham: *see* Buckingham.
—, Barbara, duchess of Cleveland: *see* Cleveland.
—, earls of Clarendon: *see* Clarendon.
—, earls of Jersey: *see* Jersey.
— Elizabeth, countess of Orkney: *see* Orkney.
— Lord Francis **4**-724d.
Villiers, George A. C. Villiers, viscount **15**-330c.
—, Henry de Villiers, baron de: *see* De Villiers.
—, A. J. F. M. Brochant de: *see* Brochant de Villiers.
—, **CHARLES PELHAM** **28**-86b; **28**-781b.
—, Sir Edward **15**-330b.
—, George **4**-721c.
—, Jacob de **27**-209c.
—, Jean de **24**-15d.
—, Sir John **3**-141c; **6**-655a.
—, John **4**-721c.
Villiers, Switz. **26**-242 (B2).
—, fort, Paris **20**-805b.
Villiers de l'Isle Adam, Jean de **15**-446a.
— de l'Isle Adam, Philippe de **17**-511d; **24**-17a; **19**-903b.
— **DE L'ISLE ADAM, P. A. M.**, comte de **28**-86b.
Villiers-St-Georges, Fr. **10**-778 (F3).
— sur-Marne, Fr. **10**-778 (C6).
Villiger, V. **3**-754d; **20**-424a.
VILLINGEN, Ger. **28**-86d; **11**-808 (B4).
Villisca, Ia. **14**-732 (B4).
Villmanstrand, Russ. **23**-872 (C3); **28**-17c; battle (1741) **20**-357c, **26**-207a; capture (1710) **10**-385c; ceded to Russia (1743) **9**-284b.
Villmergen, Switz. **26**-242 (E2) **1**-3d.
— war (1356) **26**-256c.
— war (1712) **26**-256c.
Villodas, Sp. **28**-149a (plan).
Villodrigo, Sp. **25**-530 (D1).
Villoing, Alexander **23**-809c.
VILLOISON, J. B. G. D'ANSSE (Dannse) de **28**-86d.
VILLON, FRANCOIS **28**-87a; **11**-120a; *Ballades* **25**-208b.
Villon process (alcohol) **9**-210a.
Villoresi, canal, It. **14**-846c.
Villoria, Sp. **25**-530 (C2).
Villota **25**-406b.
Villous disease (bladder) **4**-29d.
Villupuram, India **14**-382 (H13-14); **22**-60b.
VILNA (Wilno), Russ. **28**-88d; **23**-872(C5); climate **21**-930c, **23**-882a; convention of (1561) **21**-910a; union of (1401) **21**-905a, **28**-766a; university **27**-764a, **21**-921d.
VILNA (Wilno), govt., Russ. **28**-88c; **23**-872 (C4-5); inhabitants **16**-790a, **26**-448c.
Vilonia, Ark. **2**-552 (C2).
Vilostasio, cape, Gr. **12**-424 (F3).
Vils, riv., Ger. **11**-808 (D4).
Vilshofen, Ger. **11**-808 (D4).
Vilslev, Den. **8**-24 (A3).
Viluena, Sp. **25**-530 (E2).
Vilui (Vilyuy, Volyuy), riv., Russ.As. **25**-10 (H2); **28**-898d.
Viluisk (Vilyuysk), Russ.As. **25**-10 (H2); **28**-899b.
VILVORDE, Belg. **28**-89b; **3**-668 (D2); castle **4**-694c, **17**-67c.
Vily (myth.) **25**-230d.
Vilya, riv., Russ. **20**-362d.
Vilyui, riv., Russ.As.: *see* Vilui.
Vilyuyisk, Russ.As.: *see* Viluisk.
Vimaladitya (Chalukyan king) **14**-626c.
Vimalā Shāh (Indian merchant) **1**-78b; Mount Abu Temple **14**-429 (Pl. II. fig. 12).
Vimalikartti (Japanese saint) **15**-177a.
Vimana (shrine) **14**-431b.
Vimeiro (Vimiera), Port. **25**-530 (A3); battle (1808) **21**-91a.
Vimeu, Fr. **21**-576b; **25**-392d.
Vimieiro, Port. **25**-530 (A-B3); **1**-540d.
Viminacium, Moesia: *see* Kostolats.
Viminale, hill, Rome **23**-612 (D2); **23**-586(C2-1); **23**-615a; praetorian camp **24**-594a.
Viminalis, gate, Rome **23**-589d.
Vimmerby, Swed. **26**-190 (C3).
Vimory, Fr.: battle (1587) **10**-831d.
Vimoutiers, Fr. **10**-778 (E3); **20**-298d.
Vimy, Fr. **10**-778 (F1).
Vin, Ark. **2**-552 (C1).
Vina, Cal. **5**-8 (C2).
Vina-del-mar, Chil. **27**-865c; **6**-148c; Balmacedists **6**-160d.
Vinago: *see* Fruit-pigeon.
Vinagre, riv., Colom. **6**-702d.
Vinaigre, mt., Fr. **27**-904d.
Vinalapo, riv., Sp. **25**-530 (E3); **9**-164d.
Vinales, Cu. **7**-595 (B1).
Vinal Haven, Me. **17**-434 (D4).
— Haven, isl., Me. **17**-434 (D4); **17**-435d.
Vinalia rustica (festival) **23**-578d; **27**-1013a.
— urbana (festival) **2**-230d; **15**-561c.
Vinaroz, Sp. **25**-530 (F2); **5**-473a.
Vinasses **1**-857a.
Vinaya (Buddhist ruler) **20**-631c; **4**-747c; **16**-99c.
Vinber **28**-100a.
Vinça, Fr. **10**-778 (F6).
Vinca: *see* Periwinkle.
VINCENNES, Fr. **28**-89b; **10**-778 (C6); porcelain manufacture **5**-752a, **10**-847b; St Cyran imprisoned **8**-737d; steeplechase races **13**-737b; treaty (1661) **17**-11c.
VINCENNES, Ind. **28**-89c; **14**-422 (B7); **14**-425a; land office (1804) **14**-309d; see created (1834) **4**-695a; treaties (1804 and 1809) **13**-25c.
— (Yaku-Kaikyo), str., Jap. **15**-156 (G11); **28**-898b.
—, Bois de, Fr. **10**-778 (C6); **20**-807b; **28**-89c.
VINCENT, ST **28**-89d; **16**-771c; tunic of **6**-137a.
— (FERRER), **ST** **28**-92b; **10**-463d; tomb **27**-895d.
— **(OF LERINS), ST** **28**-92a; **21**-64b.
— **(DE PAUL), ST** **28**-91c; **5**-883d; **10**-746b; Clichy church **6**-507a; Francis of Sales **10**-941b; Lazarites, connexion with **16**-313a.
— **(OF BEAUVAIS)** **28**-90a; **9**-371a; **24**-353c; Carpini's history abridged **5**-398d; Mandeville's plagiarism from **17**-562b.
— L. (duke of Mantua) **12**-236a; Crichton's death **7**-434d; Rubens painter to **23**-804d; Tasso befriended **26**-445c.
Vincent (family) **1**-748d.
—, A. J. H. **22**-103b.
—, Camille Philippe **1**-857a.
—, Sir Edgar **9**-28c; **9**-115c.
—, Sir F. **28**-542d.
—, **GEORGE** **28**-91c.
—, J. E. (journalist) **19**-563a.
—, John H. (bp.) **6**-19b.
—, **MARY ANN** **28**-91c.
—, Thomas **21**-100b.
Vincent, Ala. **1**-460 (C2).
—, O. **20**-26 (G6).
—, co., N.Z. **19**-624 (G7 and B6).
—, pt., Cal. **5**-8 (D5).
Vincent Brookes, Day & Son **26**-93c.
Vincentius (Christian name): *see* Vincent.
—, Maria: *see* Benedict XIII. (pope).
Vincentown, N.J. **19**-502 (C4).
Vincenzo (Christian name): *see* Vincent.
Vinces, Ec. **8**-911 (A-B2).
—, riv., Ec. **8**-911 (B2); **8**-913c.
Vinchiaturo, It. **5**-124a.
Vinchina, riv., Arg. **2**-462 (C2).
VINCI, LEONARDO (musical composer) **28**-92b.
—, Leonardo da (painter): *see* Leonardo da Vinci.
Vincigliata, castle, It. **10**-329c.
Vinciguerra, Antonio **14**-907c.
Vinciolo, Federigo **16**-39a.
Vinck, Franz **20**-508a.
Vinco, Pa. **21**-106 (E5).
Vincotte, Thomas **24**-512a; **18**-2c (Pl. II.); **15**-98c.
Vinculum (math.) **1**-619b.
— juris (Roman law) **19**-949d.
Vincum, Ger.: *see* Bingen.
Vincy, battle of (717) **10**-808b.
Vindava, Russ.: *see* Windau.
Vindeby, Den. **8**-24 (D4).
Vin de cargaison **28**-725a.
Vindeggen, mt., Nor. **19**-804 (C3).
Vindel, lake, Swed.: *see* Stor Vindel.
—, riv., Swed. **19**-800 (D2); **26**-189a.
VINDELICIA, anc. country, **28**-92c; **22**-812d; **8**-607c.
Vindelician (Swabian) Alps **22**-674b.
Vin de queue **28**-723a.
— de tête **28**-723c.
Vindex, Gaius Julius **19**-393a.
— (pseud.): *see* Ward, Seth.
— (Roman law) **23**-551c.
VINDHYA, mts., India **28**-92c; **14**-376b; **23**-224d.
Vindhyan group (geol.) **14**-377b; **8**-159d.
Vindhyeshwari (Vindhyabasini), shrine, Bindhachal, India **18**-577c.
Vindicatio (Roman law) **23**-548a; **16**-209d.
Vindiciae contra tyrannos (1579) **16**-181b.
Vindiciae Judaeorum (Menasseh ben Israel) **18**-112b.
Vindiciae dicere (Roman law) **23**-549c.
Vindicta (Roman law) **23**-548c.
Vindictive damages: *see* Exemplary damages.
Vindilis, isl., Fr.: *see* Belle-Ile-en-Mer.
Vindö, isl., Swed. **26**-190 (E2).
Vindobonian group (geol.) **18**-565b.
Vindomen, lake, Swed. **26**-190 (D2).
Vindre, George von **4**-6c.
VINE (Vitis) **28**-92d; acclimatization **1**-116a; Algeria **1**-647a; ancient Egypt **9**-45c; California **5**-12d; Cape Colony **5**-233a; China **21**-781a; culture **28**-716d, **13**-758a; diseases **28**-719d, **28**-726c; Europe **9**-913d; France **10**-782a, **25**-696d; Germany **11**-810c; graft-hybridism **14**-28d; vernation **16**-328c; Victoria **28**-41d. *See also* Grape *and* Phylloxera.
Vinea, Francesco **20**-514c.
Vine-black **21**-598b.
Vinegar, hill, Conn. **6**-952 (G4).
—, hill, Ire. **14**-744 (E4); **9**-647c.
VINEGAR **28**-96a; **1**-145d; adulteration **1**-233c; bacteriology **3**-168c; Pasteur **10**-276b.
Vinegar Bend, Ala. **1**-460 (A4).
Vinegar-spinel **25**-684d.
Vine Grove, Ky. **15**-740 (C3).
Vinehill, Ala. **1**-460 (C3).
Vineland, Ala. **1**-460 (B3).
—, Ark. **2**-552 (B2).
—, N.C. **19**-772 (D3).
VINELAND, N.J. **28**-96d; **19**-562 (B-C5).
— (Wineland), dist., N.Am.: *see* Vinland.
Vine mildew **28**-94d (fig.); **28**-720a; **28**-726c.
Vinemont, Ala. **1**-460 (C1).
VINER, SIR ROBERT **28**-97a.
—, Sir Thomas **28**-97a.
Vinerian professorship, Oxford **4**-25d.
Vinery (hort.) **13**-749d.
Vinessa (wind) **11**-458d.
VINET, ALEXANDRE RODolphe **28**-97b; **11**-247a.
Vineta, Ger.: *see* Wolin.
Vineyard, Ark. **2**-552 (E3).
—, sound, Mass. **17**-852 (F4).
— Haven, Mass. **17**-852 (F4); **17**-737c.
— Haven, harb., Mass. **17**-852 (F4); **17**-787b.
Viney v. Bignold (1887) **2**-825b.
Vingåker, Swed.: *see* Oster Vingåker *and* Vester Vingåker.
Vingeanne, riv., Fr. **10**-778 G4); **13**-73a.
Vingelen, Nor. **19**-804 (D1).
Vingle, Pierre de **26**-264d.
Vingnaes, Nor. **19**-804 (D2).
Vingorla Rocks, isls., India (Burnt Is.): *see* Venguria Rocks.
VINGT-ET-UN (card game) **28**-97c.
Vingtièmes (Fr. tax) **10**-918b.
Vinh, Fr.I.C. **14**-498 (D-E2); **14**-493b.
Vinhas, pt., Az. **3**-83 (2).
Vinhatico **4**-445a.
Vinh-Long, Fr.I.C. **14**-498 (D-E6); **14**-492b.
—, div., Fr.I.C. **6**-621a.
Vinho, Paix do, dist., Port. **28**-76b.
Vinh-Thé, canal, Fr.I.C. **14**-498 (D6); **6**-620b.
Vinica, Hung. **3**-4 (E3).
Vinik, hill, Serv. **19**-709d.
Vining, Fanny **7**-853a.
Vining, Kan. **15**-654 (E1).
—, Minn. **18**-550 (B4).
— Mills, La. **17**-54 (B1).
Viniolae, Sard. **15**-26 (B4).
VINITA, Okla. **28**-98b; **20**-58 (F1).
Vinitza, Turk. **27**-426 (C2).
Vini vitriolatus: *see* Ether.
Vinje, Aasmund Olafsen **19**-816d.
Vinje, Nor. **19**-804 (B2).
—, fjord, Nor. **19**-804 (C1).
Vinkeveen, Holl. **13**-588 (B2).
Vinkovo, Russ.: battle (1812): *see* Tarutino.
VINLAND, region, N.Am. **28**-98b; **21**-939c; **26**-878a; sagas **14**-236d, **23**-1001a.
Vinnen, Karl **20**-510d.

For Key to Contractions, etc., see Page I.

Vinnitsa, Russ. **23**-874 (I. B2); **21**-875b.
Vinō, isl., Swed. **26**-190 (D3).
Vino de Coyol (beverage): *see* Chicha.
— d'oro **16**-34[illegible]b.
— dulce **28**-7[illegible]d.
VINOGRADOFF, PAUL 28-100b; **9**-602d; **23**-919b; on folkland **10**-600d.
Vino maestro **28**-725d.
— secco **28**-725d.
— tierno **28**-725d.
Vinovo, It. **15**-4 (A2); **15**-12d.
VINOY, JOSEPH 28-100c; **24**-575b.
Vinson, Okla. **20**-58 (B3).
Vinstervand, lake, Nor. **19**-804 (C2).
VINT (card-game) **28**-100d.
Vintage, Pa. **21**-106 (G7).
Vinten, Den. **8**-24 (B3).
Vintimille du Luc, C. G. G. de **10**-847a; **4**-504b; **14**-187c; portrait **16**-42 (Pl. V.).
Vintners' Company **16**-811a; **26**-179d; salt-cellar **21**-793 (Pl. II. fig. 27).
Vintner's Town, Ire.: *see* Bellaghy.
VINTON, FREDERIC PORTER 28-101a.
Vinton, Cal. **5**-8 (C2).
—, Ia. **14**-732 (E2); **14**-735a.
—, La. **17**-54 (A3); **17**-54d.
—, O. **20**-26 (F7).
—, Va. **28**-118 (C3).
— Co., O. **20**-26 (E-F6).
Vintondale, Pa. **21**-106 (E5).
Vintschgau, val., Aus. **3**-4 (B3); **1**-740b.
Vinuesa, Sp. **25**-530 (D2).
Vinukonda, India **14**-382 (H11).
Vinum colchici **6**-662a.
— Ferri; Vinum Ferri Citratis, &c.: *see* Ferri; Ferri Citratis, &c.
Vinycomb, John **4**-233a.
Vinylbenzene: *see* Styrolene.
Vio, Tommaso de (cardinal): *see* Cajetan (cardinal).
Vioksa, riv., Russ. **15**-918d.
VIOL (mus. instr.) **28**-101a; **28**-105a.
— da gamba **28**-101a; **28**-105c.
— d'amore **28**-105d.
Viola, Ala. **1**-460 (D2).
—, Ark. **2**-552 (C1).
—, Cal. **5**-8 (C1).
—, Ida. **14**-276 (A2).
—, Ill. **14**-304 (B2).
—, Kan. **15**-654 (E3).
—, Mich. **18**-372 (E3).
—, Minn. **18**-550 (E6).
—, Mo. **18**-608 (C5).
—, Tenn. **26**-620 (F2).
—, Wis. **28**-740 (C5).
—, mt., Alps **1**-745a.
—, val., It. **26**-242 (I4).
Viola (bot.): *see* Violet *and* Pansy.
— hirta **21**-764d.
VIOLA (mus. instr.) **28**-101b; **28**-106b; Stradivari **25**-977c.
Violaceae **25**-3d.
Viola limestone **20**-237b; **27**-631b.
Violamine **8**-746b.
Violane (min.) **8**-289a.
Violaniline **2**-48a.
Violante (Christian name): *see* Yolande.
Violanthrene **8**-751c.
Viole (mus.): *see* Vielle.
Violentiae, Clamor (Sax. law) **13**-11a.
Violet, Miss. **18**-600 (B4).
VIOLET (bot.) **28**-101b; **13**-773a; flower **10**-564a (fig.); vernation **16**-328c.
— (colour) **22**-278b; **27**-1060a.
— black (dyestuff) **8**-747b.
Violethill, Ark. **2**-552 (D1).
Violet land crab **7**-357 (fig.).
— scent **20**-52c.
— snail: *see* Janthina.
Violet Town, Vict. **28**-38 (C2).
Violetville, Md. **17**-828 (A4).
VIOLIN (mus. instr.) **28**-102b; **25**-1039b; **19**-77c; derivation **7**-514a, **12**-705a; Guarnerius **12**-660d; principal makers **28**-106d; Stradivari **25**-977c. *See also* Stroh violin.
Violle, L. J. G. **18**-277c; **6**-884b; **16**-661b.
VIOLLET, PAUL MARIE 28-107d.
VIOLLET-LE-DUC, EUGENE Emmanuel 28-107d; **5**-179a; **21**-591d; **18**-761c.
VIOLONCELLO 28-108a; **28**-106b; Stradivari **25**-977c.
Violway (mus. instr.): *see* Theorbo.
VIONVILLE, Fr. **28**-108b; **11**-808 (A4); **18**-309 (map); battle (1870) **11**-10a, **18**-308d, **1**-775a.
Viosa, riv., Turk.: *see* Viossa.
Viosne, riv., Fr. **22**-67b.
Viossa (Aóus), riv., Turk. **27**-426 (A3); **1**-482c; battle (198 B.C.) **23**-631d.
VIOTTI, GIOVANNI BATTISTA 28-108b; **4**-339a.
Vioz, pass, Alps **1**-746d.
Vipala **13**-493b.
Vipasa, riv., India: *see* Beas.
Viper, Ky. **15**-740 (E3).
VIPER 28-108c; **25**-292b; alimentary canal **23**-167b; dentition **23**-166a; distribution **23**-176a, **28**-1013c; lungs **23**-163b; phylogenetic position **25**-288b; poison glands **23**-166d; skull **23**-152b.
—, common: *see* Adder.
"Viper" (torpedo boat destroyer) **24**-916b.
Vipera **28**-109b.
— ammodytes: *see* Illyrian viper.
— arietans: *see* Puff-adder.
— aspis: *see* Asp.
— berus (cevus): *see* Adder.
— cerastes (hasselquistii): *see* Horned viper.
— russelli: *see* Daboia.
Vipere, Grotta delle, Cagliari, Sicily **5**-301a.
Viperidae: *see* Viper.
Viperinae **28**-108c; **23**-175c; **28**-1013c.
Viperini **23**-138c.
Viper's bugloss **4**-242d (fig.).
Vipont, Utah **27**-814 (A1).
Vipsanius Agrippa: *see* Agrippa (Marcus Vipsanius).
Vira: *see* Mahavira.
Viracocha (myth.) **7**-215d.
Virág, Benedict **13**-926b.
Virágregék (Mihály Tompa) **26**-1063c.
Viral, riv., India **5**-837b.
Virajpet, India: *see* Virarajendrapet.
Viramamuni: *see* Beschi, Joseph.
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—, Camineilco **21**-654c.
—, Cornelius **12**-610d.
—, Paolo **28**-147a; **10**-537d; **17**-234b.
—, **VITELLOZZO** **28**-147a.
Vitelliani **17**-620b.
Vitelline **1**-514d.
— duct (anat.) **1**-666b; **14**-715c; **8**-266d.
— matter **9**-315a.
— membrane **9**-315b.
— stalk **27**-926c.
— veins **27**-970d.
Vitellio, It. : *see* Corfinium.
VITELLIUS, AULUS **28**-147b; **23**-652a; Helvetii **13**-254a; Otho **20**-366a; Vespasian **27**-1052a.
—, Lucius **2**-661a; **15**-399d.
Vitello (Witelo) : *Optics* **5**-105b; on rainbow **22**-861c.
Vitellophagus **7**-559a.
Vitellus : *see* Endosperm.
Vitepesk, Russ. : *see* Vitebsk.
Viterbo (scholar) **22**-161d.
—, Egidio di : *see* Egidio di Viterbo.
VITERBO, It. **28**-147c; **15**-4 (D3); **23**-675d; cathedral **28**-147c; papal state **25**-805d; pawnshop (1469) **20**-972d; Reginald Pole **21**-974d; treaty (1267) **7**-544c.
Viterbo-Toscanella, It. **15**-18c.
VITET, LUDOVIC **28**-148b.
Vitez, János **13**-908b; **17**-900c.
Vitheft (Russian admiral) **23**-928b.
Vitheslaeth **8**-28b.
Vithoba (myth.) **17**-675a; **20**-675b; **14**-351a.
Viti, Timoteo della : *see* Della Vite, Timoteo.
Viti, isls., Pac.O. : *see* Fiji.
Viticulture : *see* Vine, culture.
Vitiges (king of the Goths) **15**-601a; **22**-926a; **22**-503c; catacombs sacked **5**-490c.
Vitigudino, Sp. **25**-530 (B2).
Viti Levu, bay, Fiji **10**-335 (B1).
— Levu, isl., Fiji **10**-335 (A-B1); **10**-335b.
Vitiligo (disease) **25**-192a.
Vitim, Russ.As. **25**-10 (G3).
—, plateau, Russ.As. **25**-10 (G3); **28**-898c; **23**-870c.
—, riv., Russ.As. **25**-10 (G3); **23**-870d; **28**-898d; **14**-795d; gold **25**-12a.
Vitiraurau, bay, Fiji **10**-335 (A1).
Vitis : *see* Vine.
— gardineri **22**-734a.
— labrusca : *see* Fox-grape.
Vitkovec, Budivoj **4**-751c.
Vitkovics, Michael **13**-927a.
Vitkovo, Serv. **24**-686 (C2).
Vito **7**-798c.
Vitopolis, Hung.: *see* Fiume.
Vitor, Chil. **6**-158c.
—, Peru **21**-264 (C5).
—, riv., Peru **21**-264 (C5).
VITORIA, Sp. **28**-148b; **25**-530 (D1); battle (1813) **28**-149a (plan), **21**-95c, **4**-193c, **12**-281d.
— Antigua, Vitoria, Sp. **28**-148c.
Vitosha, mt., Bulg. **4**-773 (A2); **4**-773b.
Vitovt (grand-duke of Lithuania) : *see* Witowt.
VITRE, Fr. **28**-149b; **10**-778 (D3); **14**-300d.
Vitrella (zool.) **2**-678b.
Vitreous body (anat.) **10**-93a.
— copper : *see* Copper-glance.
— electricity **9**-241a.
— humour (anat.): *see* Vitreous body.
— silver : *see* Argentite.
Vitrey, Fr. **10**-778 (G4).
Vitriaco, Phillipus de : *see* Vitry, Philippe de.
VITRIFIED FORTS **28**-149c.
Vitrina **11**-526b; **25**-284a.
Vitringa, Campeius **6**-615c.
Vitrinicha, Herz. : *see* Mostar.
VITRIOL **28**-150c.
—, blue : *see* Copper sulphate.
—, elixir of **9**-282a.
—, green : *see* Copperas.
—, oil of : *see* Sulphuric acid.
—, Roman : *see* Copper sulphate.
—, white : *see* Zinc sulphate.
Vitriolic acid air : *see* Sulphur dioxide.
Vitriolization **22**-692b.
Vitriol of Mars : *see* Colcothar.
Vitro di trina **12**-101b.
Vitrophyre **23**-276a.
VITRUVIUS (Marcus Vitruvius Pollio) **28**-150c; **2**-408d; language **16**-255d; masonry **17**-842c; MSS. recovered **21**-891a; on plastering **21**-784b, **20**-485b.
Vitry, Jacques de **6**-808b.
—, Nicolas de l'Hospital **10**-835a.
—, Philippe de (Philippus de Vitriaco) **18**-528a; **19**-87a.
—, Philippe de (bp. of Meaux) **11**-117b.
Vitry en-Artois, Fr. **10**-778 (F1).
— en-Perthois, Fr. **10**-815b; **17**-36a; **28**-151d.
— **LE-FRANCOIS**, Fr. **28**-151d; **10**-778 (G3); **17**-747a.
— sur-Seine, Fr. **10**-778 (C6).
Vitslav, Prince **27**-841c.
Vitta (bot.) **10**-256a; **27**-575c.
— (costume) **27**-1055d.
Vitteaux, Fr. **10**-778 (G4).
VITTEL, Fr. **28**-151d.
Vitterhetens Vänner **26**-218b.
Vittoria (della Rovere : of Tuscany) **18**-40d.
Vittoria, Alessandro **2**-412a.
—, Tommasso Ludovico da : *see* Victoria, T. L. da.
VITTORIA, Sic. **28**-151d; **15**-4 (E6).
" Vittoria " (ship) **17**-303b.
Vittoria Corombona **28**-462d.
VITTORIO, It. **28**-152a; **15**-4 (D2).
— Emanuele, bridge, Rome **23**-612 (B2).
— Emanuele, thoroughfare, Rome **23**-612 (B2).
" Vittorio Emanuele III." (battleship) **24**-904c.
Vittorio Emanuele library, Rome **4**-204c.
Vittoriosa (Borgo), Malta **17**-508 (B1); **17**-511d.
Vittozzi, Ascanio **18**-694a.
Vitu, sultanate, E.Af. : *see* Witu.
Vitudurum, Switz. : *see* Ober Winterthur.
VITUS, ST **28**-152a; **24**-268a; **7**-210b.
Vitylo (Octylos), Gr. **17**-431d; **16**-52a.
Vitznau, Switz. **26**-242 (F2); **17**-98a.
Viuda, La, isl., Peru **21**-266b.
Viva, La **17**-54 (C3).
Vivada Chintamani **14**-436a.
Vivaldi, Antonio **3**-130a.
Vivaldo, Guido or Vadino **28**-152b.
—, **SORLEONE DE** **28**-152b.
—, **UGOLINODE** **28**-152b.
Vivanco, Agostino **21**-276c.
Vivanti, Annie **14**-912c.
Vivara, isl., It. **15**-4 (B6); **28**-190d.
Vivarais, dist., Fr. **10**-776 (F4); **18**-174a; **2**-449c; **2**-557d; Camisard revolt **5**-114d; Tuchins **10**-821d.
—, mts., Fr. **10**-778 (G5); **5**-778b; **13**-72c.
Vivari, lake, Turk. : *see* Vatzindro.
VIVARINI (family of painters) **28**-152c; **20**-480c.
—, Giovanni (Johannes de Alemania) **28**-152c; **3**-700b.
Vivarium, monastery, It. **5**-460a.
Vivasvat (myth.) **7**-976d.
Viva Verdi **15**-55b.
Vivenna, Caeles (Caelius) : *see* Caeles Vibenna.
Vivér, Sp. **25**-530 (E3).
Vivera, isl., It. : *see* Vivara.
VIVERO, Sp. **28**-152d; **25**-530 (B1).
—, bay, Sp. **25**-530 (B1); **28**-152d; **17**-116b.
Viverra civetta : *see* Civet.
— genetta : *see* Genet.
— tangalunga : *see* Civet.
— zibetta : *see* Zibeth.
Viverravidae **7**-409b; **5**-376a.
Viverravus **7**-409b.
Viverricula **5**-369a. *See also* Civet.
— indica **15**-286c.
— malaccensis : *see* Rasse.
Viverridae **5**-368d; **17**-527c.
Viverrinae **5**-369a.
VIVES, JUAN LUIS **28**-152d; **25**-588b; on memory **2**-784b; on the poor **5**-880d.
Vivi, Bel.Cong. **6**-923 (A4); **6**-918a.
Vivian, J. G. **28**-153c.
—, **RICHARD HUSSEY Vivian**, 1st baron **28**-153a; **28**-381a; **8**-66d.
—, Sir Robert John Hussey **28**-153b; **19**-350b.
Vivian, La **17**-54 (A1).
—, S.Dak. **25**-506 (E4).
Vivian Grey (Disraeli) **3**-564a.
Viviani, Contessina Emilia **24**-830c.
—, René Raphael **10**-894a; **10**-886c.
—, Vincenzo **1**-99b; **11**-409c; on cycloid **7**-686a.
VIVIANITE **28**-153b; **14**-799b; **27**-483a.
Vivien (legend) **13**-378a.
Vivier de Streel, C. E. E. du **28**-286c.
Viviers, Fr. **10**-778 (G5); **10**-819b; **2**-450a.
Vivipara **28**-1025c foll.
Viviparus : *see* Paludina.
Viviscus, Switz. : *see* Vevey.
VIVISECTION **28**-153c; in ancient Rome **26**-126c; Descartes **8**-87d; Galen **1**-925c; Ludwig **17**-114c.
— Act (1876) **18**-59c.
Vivitas Vetus, It. : *see* Civita Vecchia.
Vivlos, Gr. **7**-681c.
Vivodina, Aus. **3**-4 (D4).
Vivonne, Louis Victor de Rochechouart, duc de **8**-734d; **19**-185b.
Vivonne, Fr. **10**-778 (E4).
Vivora de la Cruz **27**-806b.
Vivorilla Cays, isls., Hond. **5**-678 (E3).
Viwa, isl., Fiji **10**-335 (A1).
Vixen : *see* Fox.
" Vixen " (yacht) **25**-597a.
Viz. (abbrev.) **1**-30c.
Viza, Turk. **27**-426 (E2).
VIZAGAPATAM, India **28**-164d; **14**-382 (K11).
—, agency, India **28**-165a.
—, dist., India **28**-164d.
Vizakna, Hung. **27**-211b.
Vizcacha **20**-655b.
Vizcaino, Sebastian **5**-16d; **18**-774a; **20**-247d.
Vizcaino, cape, Cal. **5**-8 (A-B2).
Vizcaya, inlet, Atl.O. : *see* Biscay, Bay of.
—, prov., Spain : *see* Biscay.
" Vizcaya " (warship) **25**-595b; **5**-767a.
Vizé, Donneau de **19**-573b.
Vizetelly, Frank **28**-165b.
—, **HENRY** **28**-165a.
—, James Thomas **28**-165b.
Vizéu, Braz. **4**-440 (G2).
VIZEU (Viseu), Port. **28**-165b; **25**-530 (B2); **1**-734b; **21**-93a.
—, dist., Port. **3**-658a.
Vizezy, riv., Fr. **18**-761c.
VIZIADRUG (Gheria), India **28**-165c; **14**-382 (E11); **4**-185b; **6**-533c.
VIZIANAGRAM, India **28**-165c; **14**-382 (K10).
Viziarama Gajapati Raz **28**-165c.
— Raz **28**-165c; **4**-190c.
VIZIER (Vizir, Wazir, **28**-165d; **27**-449a; duties **17**-412c; Persian **21**-194c.
— Azam **21**-199a.
— i Huzur i Humayun **21**-199b.
— i Makhsus **21**-199b.
Vizille, Fr. **10**-778 (G5).
—, castle, Grenoble, Fr. **7**-851b.
Vizir (title) : *see* Vizier.
Viziru, Rum. **23**-826 (C2).
Vizsváros (Wasserstadt), Budapest **4**-734b.
Vizzini, Sic. **15**-4 (F6); **25**-22a.
VIZZOLA TICINO, It. **28**-165d; **15**-4 (B2).
Vjodr, riv., Ger. : *see* Oder.
VLAARDINGEN, Holl. **28**-165d; **13**-588 (B3); battle (1047) **13**-606d; battle (1351) **13**-608c.
—, Mal.Arch. **17**-193b.
Vlachia, Gr. **12**-424 (E2).
VLACHS (Ruman race) **28**-166a; in Balkan Peninsula **3**-259d; in Bulgaria **4**-777b; Bulgaro-Vlach empire **4**-780b, **14**-858a; Great Walachia **17**-220c; in Greece **12**-430b, **12**-428c; in Hungary **13**-897b, **27**-211d; language **8**-193d; in Macedonia **17**-217d, **17**-219c; in Russia **23**-885b, **23**-874a. *See also* Rumania.
Vlackte-Bosch, N.Y. : *see* Flatbush.
Vlacq, Adrian **16**-870a; **26**-329a.
Vlad (Vladislav ; of Walachia) **23**-832a.
— (Dragul : of Walachia) **23**-916a; **23**-832b.
Vladika **18**-772a.
VLADIKAVKAZ, Russ. **28**-168b; **23**-874 (II. D2); **26**-639c; **5**-547c.
VLADIMIR, ST **28**-168b; **23**-892a; **23**-915a; Minsk devastated (1096) **18**-556b; Pereyaslavl founded (993) **21**-138d.
— (Servian prince) **24**-691b; **24**-696c.
—, Alexander Nevsky, grand duke of : *see* Alexander (Nevsky).
VLADIMIR, Russ. **28**-169c; **23**-872 (F4); **5**-447b.
—, bay, Russ.As. **25**-10 (I4); **25**-13a.
VLADIMIR, govt., Russ. **28**-168d; **23**-872 (E-F4); **7**-298d.
—, principality, Aus. : *see* Lodomeria.
Vladimirescu, Theodore (prince of Walachia) **23**-837c.
Vladimir - on - the - Kiyazma, Russ. : *see* Vladimir.
VLADIMIR - VOLHYNSKIY, Russ. **28**-169d; **23**-872 (B-C5).
Vladislav (name) : *see* Ladislaus, *except as below*.
— (tsar of Bulgaria) **24**-691c.
— (voivode of Walachia) : *see* Vlad.
— I. (of Bohemia) **4**-124b.
— II. **4**-124b.
VLADIVOSTOK, Russ.As. **28**-169d; **25**-10 (I4); **23**-879c; **15**-248a.
Vlakfontein, S.Af. : battle (1901) **27**-207b.
Vlakhs (race) : *see* Vlachs.

Vlakich, Matthias: *see* Flacius.
Vlamingh, William de **21**-913a; **2**-959a.
Vlasenica, Bosn. **3**-4 (F4).
Vlashca, dept., Rum. **23**-826 (B2).
Vlasić Planina, mts., Bosn. **3**-4 (E4).
Vlasina, riv., Serv. **24**-686 (D3).
— Planina, mts., Serv. **24**-686 (D3).
Vlasotintse, Serv. **24**-686 (D3).
Vlasta **16**-122a.
Vlastidae **16**-122a.
Vlastimir (of Servia) **24**-691b.
Vlasuiya, mt., Monten. **18**-767 (A1); **18**-767b.
Vlauman Kill, riv., N.Y. **19**-596 (B1).
Vledder, Holl. **13**-588 (D2).
Vlei (dict.) **25**-467c.
Vlie (The), str., Holl. **13**-588 (C1); **28**-1049a.
Vliegen, isl., Pac.O. : *see* Rangiroa.
Vlieger, Simon de (Dutch painter) **20**-478a.
Vlieland, isl., Holl. **13**-588 (B1); **11**-233b.
Vliona, seaport, Turk. : *see* Avlona.
Vlissingen, Holl. : *see* Flushing.
Vloer (dict.) **20**-147d.
Vltava, riv., Aus. : *see* Moldau.
VlyCreek,riv.,N.Y.**19**-596(A2).
V-moth **12**-244a.
Voandzeia **4**-596b.
— subterranea : *see* Bambarra ground-nut.
Vobster, Som. **25**-389a.
Vocabulary **8**-186a.
Vocal cords **21**-462b; false **23**-185c, **28**-175d; true **23**-184c, **28**-174b.
Vochysiaceae **21**-781d.
Vociferator : *see* Boötes.
Vocin, Hung. **3**-4 (E4).
Vöcklabruck, Aus. **3**-4 (C2); battle (1626) **20**-740a.
Voconia, lex (Roman law) **28**-782d; **23**-533d.
Voconii, tribe **27**-838d.
Vodamayuta, India: *see* Budaun.
Vodastra, Rum. **23**-831a.
VODENA, Turk. **28**-170a; **27**-426 (B-C3).
VODEYSHANKAR, GOWRIshankar **28**-170a.
Vodka, riv., Russ. : *see* Vodla.
VODKA (beverage) **28**-170b.
Vodl, lake, Russ. **23**-872 (E3); **20**-91d.
Vodla, riv., Russ. **23**-872 (E3); **20**-105d.
Vodyany (folk lore) : *see* Mermaids and Mermen.
Voelker gas mantle **16**-657b.
Voelkerite **16**-657b.
Voeltzkow, A. **1**-530c.
Voenius, Otto (Dutch painter) **23**-804c.
Voet, John **14**-701d.
—, Paul **14**-701d.
Voetganger locust **16**-858d.
VOETIUS, GYSBERTUS **28**-170c; **27**-78c.
Vogel, Catherine : *see* Weygel.
—, **EDUARD** **28**-170c.
—, H. W. **21**-491b; **22**-411d.
—, Julius (German anatomist) **1**-936d.
—, **SIR JULIUS** **28**-170c.
—, K. H. : on Algol **25**-786a, **1**-655c; on stellar chemistry **2**-818a, **18**-388d.
Vogelberg, mt., Alps **1**-740a.
Vogelenzang, Holl. **13**-588 (B2).
Vögelinsegg, Switz.: battle (1403) **2**-221a.
Vogel-Plauen,Hermann**5**-334c.
Vogels, G. **20**-508c.
Vogelsang, Hermann P. J. **7**-568d; **16**-200a.
Vogelsberg, mts., Ger. **11**-806a; geology **11**-807b.
Vogelweide, Walther von der : *see* Walther.
Vogesen, mts., Eur. : *see* Vosges.
Vogesite **16**-135c.
VOGHERA, It. **28**-171b; **15**-4 (B2); **15**-26 (B2).
Vogl, Franz **24**-514d.
Vogladensis, Fr. : battle (507) : *see* Vouillé.
VOGLER, GEORG JOSEPH **28**-171b; **12**-959c.
Vogna, riv., It. **26**-242 (D5).
Vogogna, It. **26**-242 (E4).
Vogt, J. H. L. **18**-513a.
—, **KARL CHRISTOPH** **28**-172a; **11**-796a.
—, Niels Collett **19**-817d.
Vogt (official) : *see* Advocate.
VOGTLAND, dist., Ger. **28**-172a; **11**-808 (Ill. p-q11); **24**-270b; **20**-237a; (hist. maps) **11**-834, **11**-856
VOGUE, EUGENE MELCHIOR **28**-172b; **11**-151c; **2**-414d.
Vogulian Ural, mts., Russ. **21**-174c.
Vogulka, riv., Russ. **23**-872 (I3); **21**-174d.
Voguls, race, Russ.As. **10**-388d ; **26**-909a; **24**-118b; language **10**-391a.
Vohemar, Mad. **17**-271 (C2).
Vohilena, Mad. **17**-271 (B3).
Vohimasina, Mad. **17**-271 (C4).
Vohipéno, Mad. **17**-271 (C4).
Vohitra, riv., Mad. **17**-271 (C3); **17**-270c.
Vöhringen, Ger. **13**-576c.
Vohu Mano (Zoroastrianism) **28**-1042b; **18**-358d; **23**-71a.
Voi, Br.E.Af. **4**-601 (B3).
—, riv., Br.E.Af. **4**-601 (B3).
VOICE (physiol.) **28**-172b; **21**-416c; **25**-400d; production of **21**-462b, **28**-174b.
Voice of the People, The (periodical) **1**-917b.
Voices of the Night (Longfellow) **16**-978c; **1**-837b.
Void (philos.) : *see* Vacuum.
Voided (her.) **13**-321c.
Voidia, mt., Gr. **12**-424 (C-D2); **12**-426d.
Voievode : *see* Voivode.
Voight, Nev. **5**-8 (F1).
Voigt, Moritz **23**-546a; **23**-561d.
—, Waldemar **17**-391b; **8**-256b; **10**-577b.
—, Wilhelm (adventurer) **15**-897b.
Voightländer, Fr. **21**-507d.
—, Johann Friedrich **3**-950b.
Voigtsberg, Ger. **20**-13d.
Voights-Rhetz, Constantine Bernhard **11**-6d; **20**-290d.
Voil, lake, Scot. **24**-418 (C2); **16**-87a.
Voinik (Bulgarian term) **25**-243a.
Voinitchki sela (Bulgarian term) **4**-780d.
Voinovka,S.Russ.**23**-874(I.E2).
Voipiala, Russ. **23**-872 (C-D7).
Voir dire (law) **15**-591b; **28**-760d.
VOIRON, Fr. **28**-177b; **10**-778 (G5).
Voirons, mt., Alps **26**-242 (A4).
VOISENON, C. H. DE FUZÉE, Abbé de **28**-177b.
Voisin, A. **26**-327c.
Voiskos **23**-878c.
Voislav (prince of Trebinje) **24**-691c.
Voit, Carl **19**-923d.
—, E. (chemist) **19**-925d.
Voiteur, Fr. **10**-778 (G4); **15**-565b.
Voitsberg, Aus. **3**-4 (D3); **25**-1059b; **25**-1059c.
VOITURE, VINCENT **28**-177d; **3**-264c; **11**-128b.
Voivoda, rock, Jap. **15**-156 (K5).
VOIVODE **28**-178a; **4**-781a; **18**-770c; **4**-284a.
Voix celeste (stop) **12**-958d.
Vojmo, riv., Swed. **19**-800 (C2).
Vojmsjö, lake, Swed. **19**-800 (D2).
Vojtek, Hung. **3**-4 (G4).
Vojvod : *see* Voivode.
Vokhna, Russ. : *see* Pavlovo Posad.
Vol, riv., Russ. **23**-872 (H3).
Volane, riv., Fr. **27**-866a.
Volant, Pa. **21**-106 (B3).
VOLAPUK **28**-178a; **9**-774a.
Volary : *see* Aviary.
Volaterrae, It. **15**-26 (C3). *See also* Volterra.
Volatile **27**-897c.
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Vouneuil-sur-Vienne, Fr. **10**-778 (E4).
Vounta, Nic. **5**-678 (E4); **18**-902d.
Vourieni, riv., Gr. : *see* Asopus.
Vourla (Vurla), Asia M. **6**-476b.
VOUSSOIR 28-219a; **2**-342c; **17**-845d.
Vouthon, Isabeau of **15**-420a.
Vouvant, Fr. **10**-778 (D4); **27**-980d.
—, forest, Fr. **10**-608c.
Vouvray, Fr. **10**-778 (E4).
Vouvry, Switz. **26**-242 (B4).
Vouziers, Fr. **10**-778 (G3); **2**-451a.
Voves, Fr. **10**-778 (E3).
Vow, isl., Scot. **24**-418 (B2); **8**-660b.
VOW 28-219a.
Vowchurch, Hereford. **9**-420 (III. B2).
Vowel **21**-462d; harmony **26**-77a; phonetic value **21**-461c; pitch **28**-176b, **13**-249b; tone **28**-176b.
Vowinickle, Pa. **21**-106 (D3).
Vox Clamantis (papal bull) **28**-57a.
— cholerica **6**-263b.
— humana : bassoon **3**-495d; organ **12**-959a.
Voxli, lake, Nor. **26**-542a.
Vox Stellarum (Moore) **1**-711d.
Voyage Home (Lucian) : see *Kataplous.*
Voyage of Bran **5**-628b.
Voyage policy : *see under* Policy.
Voyer de Paulmy : *see* Argenson.
Voyria **11**-602a.
Voysey, John : *see* Veysey, John.
Voza, pass, Alps **1**-744a.
Vozalpaš, mt., Russ. **27**-786b.
Vozhe, lake, Russ. **23**-872 (E3); **19**-839b.
VOZNESENSK, Russ. (Kherson) **28**-220c; **23**-874 (I. C3).
—, Russ. (Vladimir) : *see* Ivanovo-Voznesensk.
Vrå, Swed. **26**-190 (B3).
Vraa, Den. **8**-24 (C1).
Vraavand, lake, Nor. **19**-804 (C3).
Vracada **14**-488d; **25**-144b.
Vrachori, Gr. : *see* Agrinion.
—, lake, Gr. : *see* Trichonis.
Vrackie, mt., Scot. **24**-418 (D1).
Vrads, Den. **8**-24 (B2).
Vraic **5**-842c.
Vrakhori, lake, Gr. : *see* Trichonis.
Vram, Vester, Swed. : *see* Vester Vram.
Vrana, Gr. **17**-675c.
—, lake, Aus. **6**-86a.
VRANCZ, SEBASTIAN 28-220c.
Vranduk, Bosn. **4**-282b.
Vrangfos, waterfall, Nor. **19**-804 (C3); **25**-187c.
Vrangö, isl., Swed. **26**-190 (A3).
Vranica Planina, mts., Bosn. **3**-4 (E5).
Vrankramer, Bosn. **4**-282b.
VRANYA (Vranyé), Serv. **28**-220c; **24**-686 (C3); **24**-687c.
—, dept., Serv. **24**-686 (C-D3).
Vranyina, Monten. **18**-767 (B2).
Vranyska Banya, Serv. **28**-220d.
Vrastan, anc. kingdom, Russ. : *see* Georgia.
Vratarnitsa, Serv. **24**-686 (D2).
Vratislav II. : Austria conferred on **3**-6a; Henry III. defeated (1040) **4**-122a; marriage **4**-159a; title of king **4**-124a.
Vratnik, pass, Hung. **3**-4 (E4).
Vratyae (caste) **13**-503b; Atharva-veda **24**-166c.
VRATZA, Bulg. **28**-220d; **4**-773 (A2); battle (1877) **12**-288b.
Vraz, Stanko **7**-476d.
Vrbanja, riv., Bosn. **3**-4 (E4).
Vrbas, riv., Bosn. **3**-4 (E4); **24**-241d; **4**-279b.
Vrbovsko, Hung. **3**-4 (D4).
Vrchlický, Jaroslav (Emil Frida) **4**-135a.
Vrdnikselo, Hung. **3**-4 (F4).
Vrede, Or.Fr.St. **25**-466 (I6); **20**-152d.
Vredefort, Or.Fr.St. **20**-151c; **20**-152d.
Vreden, Ger. **11**-808 (A2).
Vreed-en-hoop, Br.Gui. **12**-679a.
Vreeland, Holl. **13**-588 (C2); **27**-823d.
Vreeswyk, Holl. **27**-825a.
Vrelo, Serv. **24**-686 (C2).
Vrémy, Ger. **18**-310 (plan).
Vresen, isl., Den. **8**-24 (C3).
Vrestenitsa, Gr. **12**-424 (C1).
Vresthena, Gr. **12**-424 (D3).
Vrginmost, Hung. **3**-4 (D4).
Vrgorac, Dalm. **3**-4 (E5).
Vrhbosna, Bosn. : *see* Serajevo.
Vridanc : *see* Freidank.
Vriddhachalam, India : *see* Viruddhachalam.
Vridlösemagle, Den. **19**-959a.
VRIENDT, A. F. LIEVEN DE 28-220d.
—, Frans de : *see* Floris, Frans.
—, **JULIAEN JOSEPH DE 28**-220d.
Vries de : *see* De Vries.
Vries, isl., Jap. : *see* Izu no Oshima.
Vriesland, A. I. van **16**-654d.
Vriesland, Mich. **18**-372 (E7).
—, prov., Holl. : *see* Friesland.
Vriezenveen, Holl. **20**-386a.
Vrigne-aux-Bois, Fr. **10**-778 (G2).
Vril camera **21**-505b (fig.).
Vrin, Switz. **26**-242 (G3).
Vrioni, Omar : *see* Omar (Vrioni).
Vrischika **13**-492d.
Vrishabha **13**-492d.
Vritta **27**-1041c.
Vrittra (myth.) **19**-139d; **21**-204a.
Vrkhove Pochoratz, mt., Monten. **18**-767 (B1); **18**-767b.
Vrkhovna Smetna Palata **4**-778b.
Vrlika, Dalm. **3**-4 (E5).
Vrnograc, Bosn. **3**-4 (D4).
Vrolicq, Jean **15**-152d.
Vrolik, W. **18**-744d.
Vroom, Hendrick Cornelius **20**-478a.
Vrshetz, Bulg. **4**-773 (A2); **4**-774a.
Vrska Chuka, mt., Serv. **24**-686 (D2).
Vrtra : *see* Vrittra.
Vryburg, Cape Col. **25**-466 (G6); **5**-232d; **3**-605b.
VRYHEID, S.Af. **28**-221a; **25**-466 (K6); **19**-255a.
—, dist., S.Af. : annexations (1888) **19**-261d; (1903) **19**-263b.
V.S. (abbr.) **1**-29c.
V-SHAPED DEPRESSION 28-221a.
Vuache, mts., Fr. **23**-271d.
Vucht, Holl. **13**-588 (C3).
Vuelta Abaja, dist., Cu. **7**-595 (B1); **7**-595b; tobacco **26**-1038c.
— Arriba, dist., Cu. **7**-595 (G1); **7**-595b.
Vug (min.) **18**-508b.
Vui (myth.) **19**-501a.
Vuia, pt., Fiji **10**-335 (B1).
Vuillaume, J. B. **4**-340d.
Vuinasava, riv., Fiji **10**-335 (B1).
Vuissens, Switz. **11**-213d; **27**-953d.
Vuitteboeuf, Switz. **26**-242(B3).
Vukashin (Servian noble) **24**-692a.
Vukassovich, Josef Philipp **11**-186b.
Vukčić (duke of St Sava) **4**-283c.
— Hrvoje (Harvoye), duke of Spalato **4**-283c; **25**-592b.
Vukinanić, Hung. **3**-4 (D4).
Vukovar, Hung. **3**-4 (F4).
Vulcacius Gallicanus : *see* Gallicanus.
VULCAN (myth.) **28**-221a; Etruscan counterpart **9**-856d; Horatius Cocles **13**-692b.
Vulcan, Ill. **18**-608 (G3).
—, Mich. **18**-372 (C4).
—, isl., N.G. **19**-487 (E2-1).
—, pass, Rum. and Hung. : *see* Vulkan.
"Vulcan" (ship) **24**-867d.
Vulcanal, Rome : *see* Volcanal.
Vulcanalia : *see* Volcanalia.
Vulcan Corabia, mt., Hung. **3**-4 (H3).
Vulcanian system (geol.) : *see* Vulcanism.
Vulcanicity : *see* Volcanic action.
Vulcanism (geol.) **11**-644c; **7**-976b. *See also* Volcanic action.
Vulcanite **23**-803d; dentistry **8**-53b.
Vulcanization **23**-802d; **23**-803a (fig.).
Vulcanized fibre **5**-609b.
Vulcanizer **23**-803b (fig.).
Vulcano (Hiera), isl., It. **15**-4 (E5); **15**-26 (E5); bread-crust bombs **4**-182a; Hephaestus **16**-739d; rhyolitic lava **28**-183a.
Vulci, It. : *see* Volci.
Vulcientes, tribe : *see* Volceiani.
Vulgar era : *see* Christian era.
Vulgari Eloquio, De (Dante) **7**-816a; **7**-470a; **14**-911b.
VULGATE 28-221b; **3**-857b; **3**-881c; Jerome, St **15**-328a; revision **13**-859a.
Vulgientes, tribe **2**-232d.
Vulkan, mts., Transyl. **27**-212b.
—, pass, Hung. and Rum. **3**-4 (H4); **23**-826 (A2); **27**-212b; **23**-828d.
Vulliamy, B.L. **4**-542b.
Vulpavus **7**-409b.
VULPECULA ET ANSER (astron.) **28**-221b; **7**-12 (map); nebula : *see* Dumbbell nebula.
Vulpes **5**-371c. *See also* Fox.
— velox : *see* Kit-fox.
Vulpine group : *see* Alopecoids.
Vulpinite **2**-47d.
Vulpino, It. **2**-47d.
VULPIUS, CHRISTIAN AUgust 28-221b; **12**-184c.
Vulsella **16**-122c.
Vulsellidae **16**-122c.
Vulsiniensis, lake, It. : *see* Bolsena.
Vulsinii, It. : *see* Volsinii.
Vulso, Gnaeus Manlius : *see* Manlius.
— (Longus), Lucius Manlius : *see* Manlius.
Vultur cadens : *see* Lyra.
Vulture, Ariz. **2**-544 (B3).
—, mts., Ariz. **2**-544 (B3).
— (astron.) : *see* Aquila.
VULTURE 28-221c; **3**-973b; **3**-977b; in ancient Egypt **9**-46a.
Vultures, stele of the **3**-102d.
Vulturidae : *see* Vulture.
Vulturinae **28**-222a.
Vultur monachus : *see* Cinereous vulture.
Vulturnus, riv., It. : *see* Volturno.
Vultur volans (astron.) : *see* Aquila.
Vulva **23**-132d; **12**-765b.
Vulvitis **12**-765b.
Vungo, riv., Sud. **19**-693 (A6).
Vuoksen, riv., Fin. **23**-872 (C3); **10**-383c; **16**-61b.
Vuolvojaur, lake, Swed. **19**-800 (D2).
VURJEEVANDAS MADHOWdas 28-222a.
Vurla, Asia M. : *see* Vourla.
Vuursche, Holl. **3**-91a.
Vuvo, riv., Gr. : *see* Cocytus.
Vuylsteke, Julius **10**-496a.
V (weld joint) **10**-664d.
Vyakarana **24**-161a; **24**-179d.
Vyara, district, India **14**-626c.
Vyasa **24**-167c; **24**-178a.
Vyatichis, tribe **20**-251a.
VYATKA (Khlynov), Russ. **28**-222c; **23**-872 (G4); **28**-222b.
VYATKA (Viatka), govt., Rus. **28**-222b; **23**-872 (G-H4); geology **21**-177a.
—, riv., Russ. **23**-872 (H4); **28**-222b; **9**-909c.
Vyavahara Mayukha (Hindu law book) **14**-436a.
Vyazemsky, Nikifor **1**-579a.
VYAZMA, Russ. **28**-222d; **23**-872 (D-E4).
—, riv., Russ. **23**-872 (D4); **25**-277c.
Vyazniki, Russ. **23**-872 (F4); **28**-169b.
Vyborg, Fin. : *see* Viborg.
Vychan, Ednyfed **27**-362b.
—, Gronw **27**-362c.
—, Simwnt : *see* Simwnt.
Vychegda, riv., Russ. **23**-872 (H3); **28**-197a.
Vyeche (Russ. term) **25**-278a.
VYERNYI (Almaty), Russ.As. **28**-222d; **27**-420 (E3); climate **24**-617d.
Vyg, lake, Russ. **23**-872 (D-E3); **20**-91d; **9**-910d.
—, riv., Russ. **23**-872 (D3).
Vym, riv., Russ. **23**-872 (H3).
Vypin, harbour, India **15**-885d.
VYRNWY (Fyrnwy), lake, Wales **28**-222d; **9**-428 (V. D2); **28**-406 (map); **28**-404a; dam **28**-402b; Liverpool water reservoir **16**-806c.
—, riv., Wales **9**-428 (V. E2); **28**-222d; **28**-402 (Plate); fishing **24**-723d.
— Aqueduct, Wales **2**-247b.
Vyschrad, hill, Prague **22**-248b; **22**-249d; battle (1420) **4**-126a.
Vyšehrad (epic) **4**-134d.
Vyshne-Volotsk, canal system, Russ. **28**-222d.
VYSHNIY-VOLOCHOK, Russ. **28**-222d; **23**-872 (D-E4).
—, canal, Russ. : *see* Vyshne-volotsk.
Vytegra, Russ. **23**-872 (E3); **20**-92a.
—, riv., Russ. **23**-872 (E3); **20**-91d.
Vythine, Gr. **12**-436a.
Vyver, lake, Holl. **12**-817d.

For Key to Contractions, etc., see Page 1.

W

W (letter) **28**-223a ; **27**-830a ; **3**-87b.
— (chem.) **6**-39b.
Wa, Go.Cst. **12**-203 (A1) ; **12**-206d ; **1**-350c.
—, Turk.As. **15**-73b.
—, riv., Fr.Congo **11**-99 (B2).
Wa (measure) **28**-494b.
WA (tribe) **28**-223b ; **17**-571d ; **15**-947c.
Waackaack Creek, riv., N.J. **19**-502 (B3).
Waad, Sir William : *see* Wade, Sir William.
Waadt, canton, Switz. : *see* Vaud.
Waag, prov., Aby. **1**-86c.
—, riv., Hung. **3**-4 (F2) ; **9**-909d.
Waage, Peter **6**-27a.
WAAGEN, GUSTAV F. 28-223d.
—, **W. H. 28**-224a ; **20**-583d.
Waagenoceras **21**-177c.
Waaghuisen **2**-422c.
Waag-Neustadtl, Hung. : *see* Vág-Ujhély.
Waal, riv., Holl. **13**-588 (C3) ; **13**-588c.
Waals, Johannes Diderik van der **6**-846c ; **14**-883d.
Waalwyk, Holl. **13**-588 (C3) ; **26**-970c.
Waarde, Holl. **13**-588 (B3).
Waard-en-Groet, sea-polder, Holl. **19**-785b.
Wâba (disease) **21**-700a.
Wabamun, lake, Can. **1**-500 (A2).
Waban (Indian chief) **19**-593a.
Waban, Mass. **17**-852 (A4).
—, lake, Mass. **17**-852 (A4) ; **28**-507a.
Wabascon Creek, riv., Mich. **18**-372 (E7).
WABASH, Ind. **28**-224b ; **14**-422 (F3).
—, riv., Ill. and Ind. **14**-422 (A9) ; **14**-304 (E6) ; **14**-421d.
Wabasha, Minn. **18**-550 (E6).
— Co., Minn. **18**-550 (E6).
Wabash and Erie Canal, Ind. **14**-422a ; **10**-3d.
— case (1886) **27**-725c.
— Co., Ill. **14**-304 (E5).
— Co., Ind. **14**-422 (F3).
— College, Ind. **7**-387b.
— Creek, riv., Ill. **14**-304 (D4).
— R. R. Company *v.* Illinois **14**-712d.
Wabassas, lake, Me. **17**-434 (E3).
Wabasso, Minn. **18**-550 (B6).
Wabaunsee, Kan. **15**-654 (F1).
— Co., Kan. **15**-654 (F2).
Wabbaseka, Ark. **2**-552 (D3).
Wabena (people) **1**-330c.
Wabeno, Wis. **28**-740 (E3).
Wabi-Shebeyli, riv., Aby. : *see* Webi-Shebeli.
Wabiskagami, lake, Can. **20**-114 (C-D1).
Wabiskaw, lakes, Can. **1**-500 (B1).
—, riv., Can. **1**-500 (B1).
Wabuma (race) **1**-330b (table).
Wabuska, Nev. **5**-8 (D2).
Wacahoota, Fla. **10**-540 (D2).
Waccamaw, lake, N.C. **19**-772 (D3).
—, riv., N. and S.C. **25**-500 (C3) ; **19**-772 (D3) ; **25**-500a.
— Creek, riv., S.C. **25**-500 (E-F3).
Wacca Pilatka, Fla. : *see* Jacksonville.
Waccasassa, bay, Fla. **10**-540 (C2).
Waccho (Lombard king) **16**-932d.
Wace, A. J. B. **23**-480a.
—, **HENRY** (divine) **28**-224b.
—, Henry (mathematician) **16**-877c.
—, **ROBERT 28**-224c ; **11**-119a ; **2**-33a ; Arthurian romance **23**-772d, **2**-681c, **12**-669d.
Wacha, Fr.W.Af. **19**-678 (D1).
—, S.Af. **25**-466 (G-H2).
Wachaga, tribe **1**-328c ; **1**-330b (table).
Wachapreague, Va. **28**-118 (G3).
Wachau, Ger. : battle (1813) **28**-838c.
Wachberg, mt., Alps **3**-4 (D3) ; **25**-1059a.
Wachenheim, Ger. **11**-808 (II. m9).
Wachock, Russ. : battle (1863) **16**-174c.
Wachovia, colony, N.C. **28**-734b.
Wachsenburg, castle, Ger. **12**-118b.
WACHSMUTH, CHARLES 28-224d.
Wachstein, mt., Germany **24**-262a.
Wächter-Lieder : *see* Aubade.
Wachthubel, mt., Alps **26**-242 (D3).
Wa-chung-kot, Jap. **15**-156 (F6).
Wachusett, lake, Mass. **17**-852 (D1) ; **4**-291d ; **6**-530a.
—, mt., Mass. **18**-852 (D2) ; **17**-851a ; **17**-855d.
Wacissa, Fla. **10**-540 (C1).
Wackenroder, W. H. **11**-793c ; **26**-962a.
Wackenroder's solution **26**-65a.
Wacker van Zon, P. de **8**-726d.
Waclaw (Polish writer) **21**-923b.
Waco, Ala. **1**-460 (B1).
—, Ga. **11**-752 (A2).
—, Kan. **15**-654 (E3).
—, Ky. **15**-740 (D3).
—, Mo. **18**-608 (B4).
—, N.C. **19**-772 (A2).
—, Neb. **19**-324 (G4).
WACO, Tex. **28**-225a ; **26**-690 (K4).
Waco Indians **28**-225a.
Waconia, Minn. **18**-550 (D6).
Wacousta, Mich. **18**-372 (F7).
Wad, Bal. **15**-638d ; **3**-296c.
WAD (min.) **28**-225a ; graphite **15**-761b.
Wada **25**-378d.
Wada Daihachi **15**-206c ; **2**-364a.
WADAI, Af. **28**-225b ; **11**-99 (B1) ; Anglo-French treaty **1**-341b ; Bagirmi conquered **3**-201d ; Fula in **11**-291c ; Senussite influence **24**-649c.
Wad-al-hajarah, Sp. : *see* Guadalajara.
Wadan, Sah. **1**-320 (B-C2) ; **1**-215a ; **17**-564c.
Wad Ash, Sp. : *see* Guadix.
Wad Bishara (of Dongola) **9**-128c.
Wad Biskra ; Wad Mzaud, &c. *see* Biskra, Wad ; Mzaud, Wad, &c.
Wadd (god) **14**-620c ; **23**-957c.
Wadda (Saxon giant) : *see* Wade.
Waddams Grove, Ill. **14**-304 (C1).
Waddell, Colonel **26**-482c.
—, J. A. L. **4**-541b ; **4**-548a.
—, Moses **5**-1b.
—, Messrs **27**-401b.
Wadden, The, shallows, Holl. **13**-588 (C1) ; **11**-233a.
Wadderin, W.Aus. **2**-960 (B6).
Waddesdon, Bucks. **9**-420 (III. F3).
Waddesdon bequest **19**-61d ; **21**-798c ; **11**-567c.
Waddi, N.S.W. **19**-538 (C-D4).
WADDING, LUKE 28-226b ; **9**-701b.
Wadding (silk manufacture) **25**-106a.
Waddingham, Lincs. **9**-416 (II. F3).
Waddington, Mary A. **28**-226c.
—, **WILLIAM HENRY 28**-226b ; **10**-875d ; **19**-484b ; inscriptions **14**-628a, **14**-620a ; Tunis agreement **15**-67d.
Waddington, William de : *see* William (of Waddington).
Waddington, N.Y. **19**-596 (E1).
Waddington, Rutgers *v.* **12**-881b.
—, R. *v.* (1800) **9**-646c.
Waddle, Pa. **21**-106 (F-G4).
Waddle ventilating fan **6**-587c.
Waddy, Ky. **15**-740 (C2).
Wade, Armagil **28**-228a.
—, **BENJAMIN FRANKLIN 28**-226c.
—, Sir Claude Martin **15**-782c.
—, **GEORGE** (general) **28**-227a ; **5**-941c ; **24**-455b.
—, George (sculptor) **24**-506c.
—, J. **22**-530d.
—, James Franklin **28**-227a.
—, Nathaniel **18**-726d.
—, **THOMAS 28**-277c.
—, **SIR THOMAS FRANCIS 28**-227c ; **10**-671b ; **13**-31a.
—, **SIR WILLIAM 28**-228a.
— (giant) **28**-935c.
Wade, Ala. **1**-460 (B2).
—, Fla. **10**-540 (D2).
—, N.Z. **19**-624 (E2).
—, Okla. **20**-58 (E4).
—, ferry, Kent **26**-725c.
—, park, Cleveland, U.S. **20**-26 (M4) ; **6**-504b.
WADEBRIDGE, Corn. **28**-228b ; **9**-430 (VI. C3).
Wade-Davis Bill **28**-226d.
— Manifesto **7**-866d.
Wad, El, Sah. : *see* El Wad.
Wadela, dist., Aby. **1**-92c.
Wadelai (chief) **28**-228c.
WADELAI, Ugan. **28**-228b ; **27**-557 (B2) ; **19**-693 (C7).
Wadelincourt, Fr. **24**-575 (plan).
Wad-el-Ras : battle (1860) **15**-526a.
Wadena, Ind. **14**-422 (C3).
—, Minn. **18**-550 (B4).
— Co., Minn. **18**-550 (B-C4).
Waden Hill, Wilts. **3**-52c.
Wad en Nejumi (Sudan amir) **9**-126a.
Wädenswil, Switz. **26**-242 (F2) ; **28**-1057b.
Wader, earl of Norfolk : *see under* Norfolk.
Wadern beds **21**-176d ; **21**-177c (table).
Wadesboro, N.C. **19**-772 (B3).
Wadestown, W.Va. **28**-560 (C2).
Wadesville, Ind. **14**-422 (B8).
—, Va. **28**-118 (D1).
Wad Fas, riv., Mor. : *see* Fas, Wad.
Wadham, Dorothy **20**-412a.
—, Nicholas **20**-412a.
Wadham, isls., Nfd. **19**-479 (D2).
Wad Hamad, Sud. **9**-129b.
Wadham College, Oxford **20**-412a ; **2**-418d ; library **16**-554a.
Wadhams, Edgar P. **20**-23a.
Wadhurst, Sus. **9**-424 (IV. C4).
Wadhurst Clay **28**-437b ; **26**-165d.
WADHWAN, India **28**-228c ; **14**-376 (D8).
—, state, India **28**-228c.
Wadi, India **14**-382 (G11).
—, Nig. **19**-678 (E-F2).
WADI (dict.) **28**-228c.
Wadi al Ajem, tract, Syr. **8**-603d.
Wadiar (title) : *see* Wodeyar.
Wadi Arabah, Wadi Maghara, &c. : *see* Arabah, Maghara, &c.
Wadicourt, Fr. **7**-389c.
Wadi ed Der, val., Egy. **9**-40 (B2).
— es-Sebua, Egy. **9**-40 (B3) ; temple **9**-76c.
Wadigo (people) **1**-330b.
Wadih (freedman) **28**-904a.
WADI HALFA, Sud. **28**-228c ; **26**-9 (C1) ; **9**-126a ; Nile gauge **19**-696d ; railway **9**-128c, **9**-39c ; temperature **9**-23d ; temple **9**-82c ; wind **9**-24a.
Wadi 'l Qora, dist., Arab. : *see* Kura, El.
Wading, riv., N.J. **19**-502 (C4).
— River, N.Y. **19**-596 (H5-4).
Wading swallows **3**-977c.
Wadi Rayan, dist., Egy. **9**-22d.
Wadjole Galla, tribe **11**-414b.
Wadley, Ga. **11**-752 (D3).
Wadman, Johan Anders **26**-218d.
WAD MEDANI, Sud. **28**-228d ; **26**-9 (C3) ; British occupation **9**-130a ; Nile gauge **19**-696d.
— Melah, Tun. **11**-379d.
Wadna, ruins, Tun. **1**-360b ; **1**-361a ; **27**-393c.
Wadnera, India : *see* Badnera.
Wadoe (people) **1**-330c.
Wadomari, Jap. **15**-156 (F13).
Wadsley, Yorks. **28**-933 (C3).
— Bridge, Yorks. **28**-933 (D3).
Wadsworth, Benjamin **13**-40c.
—, James S. **19**-611b ; **28**-635a.
—, Joseph **6**-956b.
—, Peleg **22**-120b.
Wadsworth, Ill. **14**-304 (E1).
—, Nev. **5**-8 (D2).
—, O. **20**-26 (G2).
—, fort, N.Y. **19**-596 (H4) ; **19**-611b.
—, moor, Yorks. **28**-933 (A1).
—, mt., Mass. **17**-852 (A2).
Wad Tur el Guri (of Abyssinia) **1**-94c.
Wadu (rite) **17**-420c.
Waduruma (people) **1**-330b (table).
Wadworth, Yorks. **9**-416 (II. E3).
Wady : *see* Wadi.
Wadyanga Yoa, Sah. **1**-320 (F3).
Wady Petra, Ill. **14**-304 (C3).
Wael, Ralph de : *see* Ralph de Guader.
Waelcyrgean : *see* Valkyries.
Waelder, Tex. **26**-690 (K6).
Waereghem, Belg. **3**-668 (B2).
Waerschoot, Belg. **3**-668 (B1).
Waes, dist., Belg. **3**-668 (C1) ; **16**-928d ; **10**-478d.
Waesmunster, Belg. **3**-668 (D1).
Waet, Holl. **28**-435b.
Wa-fang-tien, China : *see* Gwaboten.
Wafer, Lionel **11**-628d.
WAFER (dict.) **28**-228d.
Wafipa (people) **1**-330c.
Wafter (naval warfare) **7**-68a.
Wagadugu, Fr.W.Af. **11**-204 (F3) ; **24**-641d ; **12**-207a.
Wagakusha (Japanese school) **15**-170c.
Wagalla (people) **1**-330c (table).
Wagar, Ala. **1**-460 (A4).
Wage (Japanese family) **15**-219d.
Wage, Die (newspaper) **4**-256a.
Wagel Syndicate Ltd., Field Ltd. *v.* **27**-130c.
Wagemann, Ludwig **15**-341c.
Wagenburg : *see* Wagon (fortress).
Wagener, Dr G. **15**-188a.
Wagener, S.C. **25**-500 (C3).
Wagenia (race) **6**-925b ; **1**-330b.
Wageningen, Holl. **13**-588 (C3) ; **13**-594d ; **11**-557c.
Wager, Sir Charles **25**-608b ; **27**-1033a.
—, H. **1**-586c.
Wager, bay, Can. **5**-160 (L2).
—, riv., Can. **11**-629c.
WAGER 28-229a.
— of battle : *see* Battle, Ordeal of.
— of law **28**-229b ; **17**-597b.
WAGES 28-229d ; **24**-60b ; Cairnes **4**-951c ; charity, effect of **5**-878d, **5**-886a ; cotton manufacture **7**-290c ; early legislation **16**-8c, **9**-503d ; Japan **7**-300b ; Marx **17**-809d ; payment **20**-978c ; Ricardo **23**-286d ; Rodbertus **23**-437c ; Rome **8**-280c ; Scotland **4**-273a, **16**-9d ; seamen **24**-546a ; Senior **24**-645d ; Adam Smith **25**-257a ; sliding scales **2**-332a ; state regulation **28**-234a, **8**-903a, **16**-9b ; trade unions **27**-148c ; truck acts **16**-20c, **16**-19d ; trusts **27**-[illegible]7b ; United States **16**-26b **7**-293c, **7**-295b ; values **27**-871b.
Wages Arrestment Limitation (Scotland) Act (1870) **2**-647d.
— Attachment Abolition Act (1870) **2**-878c.
— fund **28**-231a ; **4**-951d ; **16**-493c.
WAGGA-WAGGA, N.S.W. **28**-235b ; **19**-538 (D4).
Wäggithal, Switz. **26**-272 (F2).
Waggon (vehicle) : *see* Wagon.
Waggoner, Ill. **14**-304 (C4).
Waggoner (astron.) : *see* Auriga.
— (chart) **19**-293c.
Waggon-vault (arch.) : *see* Barrel Vault.
Waghäusel, Ger. **3**-187a.
Waghenaer, Lucas J. **17**-646c.
Waghia (god) **2**-52d.
Waghorn, Thomas **9**-26a ; **6**-6a.
Wagin, W.Aus. **2**-960 (B6).
Wagindo (people) **1**-330c.
Waging, Ger. **11**-808 (D5).
Wagiriama (people) **1**-330b.
Wagle, Bal Mangesh **26**-509a ; **22**-884b.
Wagler, Johann **23**-139b ; **3**-69a ; **20**-307c.
Wagnelée, Belg. **10**-500b.
WAGNER, ADOLF 28-235c.
—, Andreas **20**-322a.
—, Anton **24**-514c.
—, Cosima **16**-780d ; **4**-795c.
—, Hans Karl Hermann **9**-907c.
—, Heinrich Leopold **11**-792b.
—, Hermann **26**-235d ; **22**-92b ; **11**-630d.
—, J. J. **26**-263d.
—, Johann Gottlob **21**-567d.
—, Johann W. **23**-462b.
—, J. P. **14**-502d.
—, Moritz **2**-320a ; **7**-250b.
—, N. **13**-429c.
—, Robert **5**-335c.
—, **RUDOLPH 28**-235d ; **1**-936d ; **8**-326a ; comparative measurements of **21**-537d.
—, R. **23**-117c.
—, Samuel **3**-633d.
—, **WILHELM RICHARD 28**-236b ; **19**-80c ; **11**-797c ; Bach **3**-126c ; Beethoven **3**-650b ; development of music **10**-372a ; influence on drama **8**-542d ; Liszt **16**-780d ; Louis II. of Bavaria **13**-574b, **17**-33d ; Meyerbeer **18**-350a ; Nietzsche **19**-672d ; operas **20**-124a, **16**-132b ; orchestration **14**-655b, **14**-654a ; overtures **20**-385c ; Sullivan **26**-57a ; Verdi **27**-1018a.
Wagner, Mont. **14**-276 (E-F1).
—, S.Dak. **25**-506 (G4).
—, Wis. **28**-740 (F3).
—, fort, S.C. **13**-101b.
Wagner, Behn and : *see* Behn and Wagner.
Wagner-Feuncl tacheometer **26**-344a.
Wagneria annulata : *see* Cacomistle.
Wagnerite **17**-320c.
Wagner Palace Car Works, U.S. **4**-756a.
Wagners Landing, Ill. **14**-304 (C6).
Wagner theatre, Bayreuth **3**-559b.
— tuba **27**-353c.
— Union **26**-868a.

For Key to Contractions, etc., see Page 1.

Wagogo (people) **1**-330b.
Wagon (astron.): *see* Ursa Major.
— (fortress) **5**-564d; **14**-520c; **2**-685d.
WAGON **28**-243c; ambulance **1**-803d; artillery **2**-690c, **2**-691d, **20**-220 (Pl.).
Wagons, N.S.W. **19**-538 (F5).
Wagon Creek, riv., Okla. **20**-26 (C1).
Wagoner, Ariz. **2**-544 (B2).
—, Ind. **14**-422 (E3).
—, Okla. **20**-26 (F1).
— Co., Okla. **20**-26 (F2).
Wagon Hill: battle (1899) **27**-205b.
Wagon Mound, N.Mex. **19**-520 (F1).
Wagontown, Pa. **21**-106 (H7).
Wagon Wheel Gap, Colo. **6**-722 (D4); **6**-721d.
Wagora: *see* Wagura.
WAGRAM, Aus. **28**-243d; **3**-4 (E2); battle (1809) **28**-243d, **11**-862d, **5**-932a.
— Creek, riv., Md. **17**-828 (H4).
Wagreinstattel, pass, Alps **1**-746b.
Wagri (people) **11**-832a.
Wagria, dist., Ger. **17**-86b.
Wagshum Gobassié **1**-92b; **1**-93b.
Wagstadt, Aus. **3**-4 (F2).
Wagstaffe, Thomas **19**-737a.
WAGTAIL **28**-245a.
Waguha, tribe **1**-330b.
Wagunda, tribe **1**-330c.
Wagura, riv., India **1**-451c.
—, spa, Jap. **15**-161a.
Waguru, tribe **1**-330c.
Wa-gwa-ryu (Japanese school) **15**-173c; **15**-174a.
Wah (meas.) **25**-6a.
Waha, Ida. **14**-276 (A2).
Wahab, Robert Alex. **2**-739c.
Wahab-allath (of Palmyra) **20**-653d; **28**-972a.
Wahabites, tribe: *see* Wahhabis.
Wahadimu (race) **28**-957b.
Wahagn (god) **2**-570a.
Wahai, Mal.Arch. **17**-466 (F3); **1**-797b.
Wahai, dist.,Mal.Arch. **5**-702d.
Wahalak, Miss. **18**-600 (D3).
Wahatoya, Colo. **6**-722 (E4).
Wahb-abi-Kabha **6**-175d.
Wahb b. Monabbih **2**-275d.
Wahehe, tribe **11**-773a; **11**-774b; **1**-350c.
Wah el-kharga: *see* Kharga.
Wahha, tribe **1**-329c.
Wahhab: *see* Mahommed (b. Abd ul Wahhab).
WAHHABIS, tribe **28**-245a; **2**-267d; **27**-455a; Egyptian campaigns **9**-110c; India **13**-490a; law **17**-416c.
Wahidi (Arabian writer) **18**-905b.
Wahiguya, Fr.W.Af. **11**-204 (F3).
Wahir, Bal. **14**-376 (B6).
Wahkiakum Co., Wash. **28**-354 (B3).
Wahlberg **20**-516b.
Wahle, Fritz **5**-334c.
Wahlen, Ger. **11**-808 (II. m9).
Wahlenberg, Georg **5**-384b.
Wahlkapitulation **11**-852b.
Wahlmann **22**-521c.
Wahlstatt, prince of: *see* Blücher, Gebhard L. von.
Wahlstatt, Ger.; battle (1241) **12**-209c.
Wahme, riv., Fr.Cong. **11**-99 (A2); **24**-805a.
Wahn, Ger. **11**-808 (I. k7).
Wahon-la, pass, Tib.: *see* Vahon jamkar-la.
Wahoo, Neb. **19**-324 (H3).
Wahpeton, N.Dak. **19**-780 (H3).
Wahran, Alg.: *see* Oran.
Wahrendorff gun **20**-192d; **20**-197c.
Währing, Aus. **19**-957d.
Wahrwolf: *see* Werwolf.
Wahsatch, U.S.: *see* Wasatch.
Wahtoke, Cal. **5**-8 (D3).
Wahuma: *see* Ba-Hima.
Wahwah: *see* Gibbon.
WAI, India **28**-245d; **14**-382 (F11).
—, isl., Mal.Arch. **3**-310c.
—, riv., Afg. **15**-631b.
Wai, tribe: *see* Waigulis.
Waia, isl., Fiji **10**-335 (A1).
Waiakapiapu, mt., Brit.Gui. **12**-677a.
Waialae, bay, Haw. **13**-84 (C2).
Waialealc, mt., Haw. **13**-84 (B1); **13**-85b.
Waialee, Haw. **13**-84 (B2); **13**-90c.
Waialua, Haw. **13**-84 (B2).
Waianae, Haw. **13**-84 (B2).
Waianae, mts., Haw. **13**-84 (B2); **13**-85a.
Waiapu, co., N.Z. **19**-624 (F7 & G2).
—, riv., N.Z. **19**-624 (G2).
Waiatoto, N.Z. **19**-624 (B6).
Waiau, N.Z. **19**-624 (D5).
—, riv., N.Z. **19**-624 (D5); **19**-625a.
Waiauua, riv., N.Z.: *see* Dillon.
Waiblingen (family) **12**-668d; **11**-45a: *see also* Guelphs and Ghibellines.
WAIBLINGEN, Ger. **28**-245d; **11**-808 (B4).
Waiblinger, W. **11**-794b.
Waidhaus, Ger. **11**-808 (D4).
Waidhofen-an-der-Thaya,Aus. **3**-4 (D2).
Waidhofen a. Ybbs, Aus. **3**-4 (D2); **3**-2a.
Wa'iditcs **17**-424b.
Waifer (of Aquitaine) **2**-252c; **13**-892c; **3**-809c.
Waigach (Waigats): *see* Vaygach.
Waigamma, Mal.Arch. **17**-466 (F3); kingship **19**-490a.
Waigat, riv., W.I. **7**-636a.
—, str., Green. **12**-543 (D3); **12**-545a.
Waigeu, isl., Mal.Arch. **17**-466 (G2); kingship **19**-490a.
Waiguli, tribe **15**-631c.
Waihao, N.Z. **19**-624 (C6).
—, riv., N.Z. **19**-624 (C6).
Waihehi, isl., N.Z. **19**-624 (E2).
Waihemo, co., N.Z. **19**-624 (G7 & C6).
Waihi, N.Z. **19**-624 (C5).
—, mine, N.Z. **19**-627c.
Waihopai, riv., N.Z. **19**-624 (D4).
Waihoro, lake, N.Z. **19**-624 (D5).
Waihou (Thames), riv., N.Z. **19**-624 (E2); **26**-725a; **21**-806a.
Waihu, isl., Pac.O.: *see* Easter Island.
Waiilatpu, Wash. **28**-279c.
Waiilatpuan (linguistic family) **1**-811d; **14**-455d.
Waikana, pt., N.Z. **19**-624 (F2).
Waikanae, N.Z. **19**-624 (E4).
Waikane, Haw. **13**-84 (C2).
Waikare, lake, N.Z. **19**-624 (E2).
— Iti, lake, N.Z. **19**-624 (F3).
Waikari, N.Z. **19**-624 (D5).
Waikarimoana, lake, N.Z. **16**-90b; **19**-624c.
Waikato, co., N.Z. **19**-624 (E7 & E2); **19**-625c.
—, riv., N.Z. **19**-624 (E2); **19**-624c.
Waikawa, N.Z. **19**-624 (B7).
Waikiki, beach, Haw. **13**-660a.
Waikite, geyser, N.Z. **11**-914c.
Waikouaiti, N.Z. **19**-624 (C6).
Wailaki, tribe **2**-827b.
Wailangilala, isl., Fiji **10**-335 (C1).
Wailesboro, Ind. **14**-422 (F6).
Waili el Kobra, Cairo **4**-954 (C1).
Waille, Victor **1**-360d.
Wailly, Amelie de **18**-195d.
—, **NOEL F. DE** **28**-245d.
Wailua, riv., Haw. **13**-84 (B1).
Wailuku, Haw. **13**-84 (C2).
—, isth., Haw. **13**-84d.
—, riv., Haw. **13**-84 (D3).
Waima, S. L. **25**-56d.
Waimakariri, riv., N.Z. **19**-624 (D5).
Waimanalo, bay, Haw. **13**-84 (C2).
Waimanu, gorge, Haw. **13**-84 (D2); **13**-83d.
Waimate, N.Z. **19**-624 (D1).
—, N.Z. **19**-624 (C6).
Waimea, Haw. **13**-84 (B2).
—, bay, Haw. (Kauai) **13**-84 (B2).
—, bay, Haw. (Oahu) **13**-84 (B2).
—, co., N.Z. **19**-624 (F7 & D4).
Waimen, Haw. **13**-84 (D2).
Waimio: *see* Whangarei limestone.
Waimue, Dorset.: *see* Weymouth.
Wain, Charles': *see* Ursa Major.
Wainad, tract, India: *see* Wynaad.
WAINEWRIGHT, THOMAS G. **28**-246a.
Wainfleet, Lincs. **9**-416 (II. H3); **16**-716b; **28**-435b.
WAINGANGA, riv., India **28**-246b; **14**-382 (H9); **3**-233c.
Waingapu, Mal.Arch. **17**-466 (E4); **26**-74d.
Waini, riv., Brit.Gui. **12**-675 (C1); **12**-677b.
Wai Nibe, riv., Mal.Arch. **17**-466 (F3); **4**-867b.
— ni-koro, riv., Fiji **10**-335 (B1).
Wainscot, Kent **16**-942 (G3).
WAINSCOT (panel work) **28**-246b.
Wain Stones mt., Derby. **28**-933 (B3).
Wainui, N.Z. **19**-624 (F4).
Wainunu, riv., Fiji **10**-335 (B1).
Wainwright, Ga. **11**-752 (D5).
Waiohinu, Haw. **13**-84 (D3).
Waipa, co., N.Z. **19**-624 (E7 & E2).
—, riv., N.Z. **19**-624 (E2).
Waipahi, N.Z. **19**-624 (B7).
Waipapa, pt., N.Z. **19**-624 (E5).
—, pt., N.Z. **19**-624 (B7).
Waipara, riv., N.Z. **19**-624 (D5).
Waipara group **19**-625b; **7**-416c.
Waipawa, N.Z. **19**-624 (F4).
Waipio, Haw. **13**-84 (D2).
—, gorge, Haw. **13**-84 (D2); **13**-83d.
—, riv., Haw. **13**-84 (D2).
Waipu, N.Z. **19**-624 (E2).
Wairagarh, India **14**-382 (I9); **5**-837b.
Wairakei, N.Z.: *see* Weirakei.
Wairamba (people) **1**-330b.
Wairarapa, lake, N.Z. **19**-624 (E4); **19**-624c.
—, plain, N.Z. **19**-624c.
—, North, co., N.Z. **19**-624 (F7 & E4).
—, South, co., N.Z. **19**-624 (F7 & E4).
Wairau, riv., N.Z. **19**-624 (D4).
Wairaumoana, lake, N.Z. **16**-90b.
Wairaurahiri, riv., N.Z. **19**-624 (A7).
Wairea, N.Z. **19**-624 (D5).
Wairoa, N.Z. **19**-624 (F3); **23**-764c.
—, riv., N.Z. **19**-624 (E1).
—, riv., N.Z. **19**-624 (F3).
Wairoa group **19**-625b; **27**-259b.
Wais, Pers. **21**-188 (A2).
Wai-shan, lake, China: *see* Tu-shan-hu.
WAIST **28**-246c.
Waistcloth: *see* Loincloth.
Waistcoat **7**-241d; **19**-340b.
Wait, W. B. **4**-70a.
Wait-a-bit thorn **3**-605b.
Waitaha, N.Z. **19**-624 (C5).
Waitaki, N.Z. **19**-624 (C6).
—, riv., N.Z. **19**-624 (C6).
Waitangi, N.Z. **6**-6c; treaty (1840) **19**-629a.
—, riv., N.Z.: *see* Waitaki.
Waitapu, N.Z. **19**-624 (D4).
Waitara, riv., N.Z. **19**-624 (E3).
Waitaroa, N.Z. **19**-624 (C5).
Waite, Henry Matson **28**-246c.
—, **MORRISON REMICK** **28**-246c.
Waitekuri, N.Z. **26**-725a.
Waitemate, co., N.Z. **19**-624 (E7 & E2).
Waite Park, Minn. **18**-550 (C5).
Waiteville, W.Va. **28**-560 (C4).
Waite *v.* North Eastern Railway Co. **19**-343b.
WAITHMAN, ROBERT **28**-246d.
Waitotara, N.Z. **19**-624 (E3).
—, riv., N.Z. **19**-624 (E3).
Waits, Cal. **5**-8 (D4).
—, riv., Vt. **19**-490 (C3).
WAITS **28**-246d: *see also* Minstrel.
Waitsburg, Wash. **28**-354 (G3).
Waitsfield, Vt. **19**-490 (B3).
Waitutu, riv., N.Z. **19**-624 (A7).
WAITZ, GEORG **28**-247a.
—, **THEODOR** **28**-247c; **1**-117d.
Waitzen, Hung.: *see* Vácz.
Waitzenberg, mt., Hung.: *see* Nagyszál.
Waitzia **10**-10b.
— aurea **13**-767b.
Waiuku, N.Z. **19**-624 (E2).
Waiver (law) **16**-598b; outlawry **20**-381c.
Waives and strays **6**-378b.
Waiwera, N.Z. **19**-624 (E2).
Wai-wu Pu **6**-183a.
Waiz, Mir **21**-232d.
Wajid Ali **14**-414d; **13**-489a; **17**-106c.
Wajima, Jap. **15**-156 (K8).
Wajra Karur, India **8**-162b.
Wajui, tribe **1**-330b.
Wak, El, Br.E.Af. **4**-601 (C2); **25**-379 (B6).
Waka (myth.) **11**-414a.
Wakaguru, tribe **1**-330b.
Wakaia, riv., N.Z. **19**-624 (B6).
Wakamatsu, Jap. **15**-156 (L8); **15**-213c.
Wakamba, tribe **1**-328c; **1**-330b.
Wakanda **14**-471d.
Wakanongo, tribe **1**-330b.
Wakarusa, Ind. **14**-422 (E1).
—, Kan. (Shawnee Co.) **15**-654 (G2).
—, Kan. (Douglas Co.): *see* Lawrence.
Wakarusa war (1855) **16**-309a.
Wakasa, prov., Jap.: *see* Jakushu.
— wan, bay, Jap. **15**-156 (I9); **15**-157b.
Wakashan (people) **14**-456a; **1**-811d.
Wakatipu, lake, N.Z. **19**-624 (B6); **16**-90b; **14**-718c.
Waka-waka, Go.Cst. **12**-203 (A2).
Wakaya, isl., Fiji **10**-335 (B1).
Wakayama, Jap. **15**-156 (I9); **15**-211b; cotton **7**-300b; population **15**-164d.
—, prefecture, Jap. **15**-205a.
Wake, Sir Isaac **28**-248a.
—, **THOMAS,** baron **28**-247d.
—, **WILLIAM** **28**-247d; **5**-211c; **16**-553d.
Wake, isl., Pac.O. **20**-436 (F3).
Wake (of ship) **24**-940c; **24**-948c.
WAKE (vigil) **28**-248a.
Wake Co., N.C. **19**-772 (D2).
— Court House, N.C.: *see* Raleigh.
Wakeeney, Kan. **15**-654 (C1).
WAKEFIELD, EDWARD Gibbon **28**-248c.
—, **GILBERT** **28**-249c.
Wakefield, Cal. **5**-8 (A1).
—, Ill. **14**-304 (D5).
—, Kan. **15**-654 (E1).
—, Ky. **15**-740 (C3).
—, La. **17**-54 (a5).
WAKEFIELD, Mass. **28**-250c; **17**-852 (B3).
—, Mich. **18**-372 (B4).
—, Neb. **19**-324 (H2).
—, N.H. **19**-490 (E4).
—, N.Y. **19**-596 (E4).
—, Pa. **21**-106 (K6).
—, R.I. **23**-249 (B3).
WAKEFIELD, Yorks. **28**-249d; **28**-933 (D2); battle (1460) **9**-518a; cathedral **5**-520d.
—, Va. **28**-118 (E4).
—, riv., S.Aus. **25**-493b.
Wakefield Mysteries: *see* Towneley Plays.
Wake Forest, N.C. **19**-772 (D2).
Wakeham, bay, Can. **5**-160 (P3).
Wakelee, Mich. **18**-372 (E8).
Wakelin-Barratt, J. O. **2**-49a.
Wakem, Bur. **4**-840 (D6).
Wakeman, Sir George **24**-484b; **24**-258a.
Wakeman, Colo. **6**-722 (H1).
—, O. **20**-26 (F2).
Wakeman's horn **23**-365a.
Wakenaam, isl., Brit.Gui. **12**-677b.
Wakenda, Mo. **18**-608 (C2).
Wakenitz, riv., Ger. **17**-85a.
Wakerewe, tribe **1**-330b.
Wake Robin: *see* Cuckoo-pint.
Wakes Colne, Ess. **9**-424 (IV. D3).
Wakf **17**-413a; **9**-29d.
Wakhan, dist., C.As. **27**-420 (E-F1); **27**-420 (E4); **3**-182b; annexation **10**-270c, **27**-471b; Galcha tribe **11**-397c.
—, riv., C.As.: *see* Panj.
Wakhjir, pass, C.Asia **13**-513c; **20**-656d.
Wakhtang (of Georgia): *see* Vakhtang.
Wakhutu, tribe **1**-330c.
Wakidi, pseudo **2**-276a; **14**-223a.
Wakikuyu, tribe **1**-328c; **4**-602d; **1**-330b.
Wakimbu, tribe **1**-330b.
Waking **28**-248b.
Wakisi, tribe **1**-330c.
Wakita, Okla. **20**-58 (D1).
Wakkanai, Jap. **15**-156 (M4).
Wakkeh (weight) **21**-198c.
WAKKERSTROOM, Trans. **28**-250d; **25**-466 (K6).
—, dist., Trans. **27**-189d; **28**-250d.
WAKLEY, THOMAS **28**-250d; **1**-220a.
Wakolo, lake, Mal.Arch. **17**-466 (F3); **4**-867b.
Wakon **15**-220a.
Wakonda, S.Dak. **25**-506 (H4).
Wakool, riv., N.S.W. **19**-538 (C4).
Wakore (people): *see* Mandingo.
Wakseri, mt., N.G. **19**-487 (C1).
Waksh, dist., C.Asia **3**-183a.
—, riv., Asia: *see* Vakhsh.
Wakuach, lake, Can. **5**-160 (Q4).
Wakuafi, tribe **17**-834c; **11**-772d; **1**-329c.
Wakulla, Fla. **10**-540 (B1).
—, riv., Fla. **10**-540 (B1); **26**-372d.
—, spring, Fla. **10**-540d.
— Co., Fla. **10**-540 (B1).
Wal **2**-260d.
Wala (dynasty): *see* Valabhi.
Wala, riv., Ger.E.Af. **11**-771 (B2).
—, riv., Pal. **20**-602 (D5).
Walachi: *see* Gipsies.
WALACHIA, prov., Eur. **28**-251a; **23**-826 (A-C2); **23**-831d; chronicles **23**-845c; gipsies in **12**-38c; Russo-Turkish agreements **27**-455a; Russo-Turkish convention (1826) **27**-457b.
—, Great, prov., Eur. **28**-167d; **23**-831c.
—, Little, prov., Rum. **23**-826 (A2); **28**-168a.
Walad (of Persia) **21**-227b.
Walad Michael **1**-93b.
Walad-Nail, tribe **4**-4d.
Walad-sidi-Sheikh, tribe **1**-652b.
Walad Sliman, tribe: *see* Suleiman, Beni.
WALAFRID STRABO **28**-251a; **14**-184b.
Walajabad, India **14**-382 (H-I13).
Walajah: *see* Mahommed Ali.
Walajahabad, India: *see* Walajabad.
Walajapet, India: *see* Wallajapet.
Walam, U.Sen. and Nig. **11**-204 (G3).
Walannae, riv., Mal.Arch. **17**-466 (D4-3); **5**-597b.
Walapai, tribe **14**-466a.
Walar, India **14**-376 (E5).
Walata, U.Sen. and Nig. **11**-204 (D2); **12**-696b.
—, Dahar, oasis, Sah. **11**-204 (D-E2); **17**-564c.
Walawe Ganga, riv., Cey. **14**-382 (I16).
Walayah, Queensland **2**-960 (F4).
Walbridge (physicist) **16**-662a.
Walbridge, O. **20**-26 (C1).
Walbrook, Md. **17**-828 (A3).
—, stream, Lond. **16**-938d.
Walbundry, N.S.W. **19**-538 (D4).
Walburg, Tex. **26**-690 (K5).
Walburga, St: *see* Walpurgis, St.
Walbury, hill, Berks. **9**-420 (III. D4).
Walch, C. W. F. **28**-252a.
—, J. E. I. **28**-251d; **11**-647a.
—, **JOHANN GEORG** **28**-251d.
—, K. F. **28**-252b.
Walcha, N.S.W. **19**-538 (F2).
Walcheline (name): *see* Walkelin.
Walcher (bp. of Durham) **8**-708a; **11**-529d.
Walcheren, isl., Holl. **13**-588 (A3); capture (873) **19**-414c; ownership **13**-606c, **8**-29a, **4**-195a; Vikings **9**-468d.
Walcheren expedition (1809) **9**-555a.
Walchia **20**-538d; **5**-311d.
Walchvögei: *see* Dodo.
Walchwil, Switz. **26**-242 (F2).
Walcot (traitor) **3**-656a.
Walcot, Lincs. **9**-416 (II. G3).
—, Som. **7**-828b.
WALCOTT, CHARLES DOOLITTLE **28**-252b.
Walcott, Ark. **2**-552 (E1).
—, Ia. **14**-732 (G3).
—, N.Dak. **19**-780 (G-H3).
—, Wyo. **28**-874 (F4).
—, fort, R.I. **19**-534d.
—, Port, W.Aus. **2**-960 (B4); **17**-381a.
Walcourt, Belg. **12**-343d.
Wald, Franz **9**-256b.
Wald, Aus. **3**-4 (C3).
—, Switz. **26**-242 (F2); **28**-1057b; **7**-299a.
Walda, palace, Egy. **4**-954 (C4).
—, Ezbah el, Egy. **4**-954 (C4).
Waldaschach, Ger.: battle (1866) **24**-714c.
Waldau, Max: *see* Hauenschild.
Waldau, Bernburg, Ger. **3**-800b.
Waldböckelheim, Ger. **11**-808 (II. I9).
Waldbröl, Ger. **11**-808 (I. k7).
Waldburg, Gebhard Truchsess von: *see* Gebhard (Truchsess von Waldburg).
Waldeck, George Frederick, prince of: *see* George Frederick.
Waldeck, Can. **24**-225 (A3).

WALDECK-PYRMONT, principality, Ger. **28**-252c; **11**-808 (B3 & G1); **11**-808d.
WALDECK-ROUSSEAU, P. M. R. E. 28-253b; **10**-881d; **10**-889a.
"Waldeck Rousseau" (cruiser) **24**-912c.
WALDEGRAVE (family) **28**-254b.
—, Robert **17**-750a.
Waldemme, riv., Switz. **26**-242 (E3).
Walden, Paul **25**-892d.
—, **ROGER 28**-254d.
Walden, Colo. **6**-722 (D1).
—, Ga. **11**-752 (C3).
—, N.Y. **19**-596 (A5); **19**-466d.
—, Vt. **19**-490 (C3).
—, isl., Arct.O. **21**-943c.
—, pond, Mass. **17**-852 (C3).
—, pond, Mass. **17**-852 (A3); **26**-877c.
Walden (Thoreau) **1**-838c; **26**-877c.
Walden Beck, riv., Yorks. **9**-412 (I. E4).
Waldenburg, Ark. **2**-552 (E2).
—, Ger.(Sax.) **11**-808 (III. q11).
WALDENBURG, Ger. (Sil.) **28**-254d; **11**-808 (F3).
—, Switz. **26**-242 (D2).
WALDENSES 28-255a; **16**-240c; **18**-125b; **6**-929d; Cromwell's championship **7**-494b; dialect **8**-193d; massacre (1545) **10**-828d, **13**-865b; prosecution **14**-593d.
Walden university, Tenn. **19**-246d.
Walderbeskopf, mt., Ger. **23**-242c.
Waldere **9**-608a; *see also* Waltharius.
Waldersbach, Guérin de **11**-11c.
WALDERSEE, ALFRED, count **28**-258b; **6**-206a; **20**-291d.
Wälderthon **28**-437b.
Waldeyer, Wilhelm **5**-176c; **27**-94d; **20**-920b.
Waldfeucht, Ger. **11**-808 (I. j6).
Waldfoghel, Procopius **27**-533b.
Waldheim (pseud.): *see* Radowitz, Joseph Maria von.
Waldheim, Ger. **11**-808 (D3); **24**-676b.
Waldheimia: *see* Magellania.
Wäldi, Switzerland **26**-242 (G1).
Waldis, Burkard **11**-787b.
Waldkappel, Ger. **11**-808 (III. n10).
Waldkirch, Ger. **1**-369c; **16**-197a.
Waldlauter, riv., Ger. **15**-636b.
Waldmann, Hans **28**-1059b.
Waldmünchen, Ger. **11**-808 (D4).
WALDO, SAMUEL LOVETT 28-258c.
Waldo, Ark. **2**-552 (B4).
—, Fla. **10**-540 (D2).
—, Me. **17**-434 (C4).
—, Miss. **18**-600 (C3).
—, O. **20**-26 (D4).
—, Oreg. **20**-242 (B5).
—, Wis. **28**-740 (F5).
—, lake, Oreg. **20**-242 (C4).
Waldoboro, Me. **17**-434 (C4).
Waldo Co., Me. **17**-434 (C-D4).
Waldon, riv., Dev. **9**-430 (VI. D2).
Waldorf, Md. **17**-828 (F3).
Waldport, Oreg. **20**-242 (A3).
Waldrada (of Lorraine) **17**-18c; **19**-649b.
Waldrep, Ala. **1**-460 (D2).
Waldrip, Tex. **26**-690 (H4).
Waldron, Ark. **2**-552 (B3).
—, Ill. **14**-304 (E2).
—, Ind. **14**-422 (F6).
—, Mich. **18**-372 (F8).
—, Mo. **18**-608 (B2).
—, Sus. **9**-424 (IV. C5).
—, isl., Wash. **3**-700b.
Waldrop, Va. **28**-118 (D2).
Waldsassen, plateau, Ger. **4**-122a.
Waldsee, Ger. **11**-808 (B5).
Waldseemüller, Martin **17**-644d.
Waldshut, Ger. **11**-808 (A-B5); **3**-185d.
Waldstatt, Switz. **26**-242 (G2).
Waldstätten, canton, Switz. **27**-781c.
Waldstein, Charles **12**-485c; **13**-374c.
"Waldstein sonata" (Beethoven) **3**-648c.
Waldviertel, dist., Aus. **3**-1b.
Waldwick, N.J. **19**-502 (A1).
—, Wis. **28**-740 (C6).
Waldwolle **21**-623b.
Wale, SomInd. **25**-466 (C6).
Walé, riv., W.Af. **16**-539d.
Wale (basket weaving) **3**-482d.
Waledana, Ess.: *see* Saffron Walden.
Walembele, Go.Cst. **12**-203 (A-B1).
WALENSEE, lake, Switz. **28**-258c; **26**-242 (G2).
Walenstadt, Switz. **26**-242 (G2); **28**-258d.
Waleran, count of Saint-Pol **2**-563a; **2**-563b.
Waleren, Switz. **26**-242 (C3).
Wales, J. A. **5**-335b.
Wales, Mass. **17**-852 (C2).
—, Me. **17**-424 (B4).
—, Mich. **18**-372 (H1).
—, N.Dak. **19**-780 (F1).
—, N.Y. **19**-596 (B3).
—, Utah **27**-814 (C3).
—, Wis. **28**-740 (E5).
—, Yorks. **28**-934d.
—, cape, Can. **5**-160 (P3).
—, ist., Can. **5**-160 (P3).
WALES, principality, Great Brit. **28**-258d; **9**-428 (map); agriculture **1**-400c; census methods **5**-663; education **8**-983d, **28**-266b, **6**-638c; eisteddfodau **9**-136c; emigration of **18**-428d; fruit and flower farming **11**-261a; government **28**-261a; industries and commerce **28**-260c, **27**-600d; Madoc legend **14**-452d; Patagonian colony **6**-322d; rainfall **9**-417b; reservoir sites **28**-406, **28**-407; statistics **14**-301a, **26**-50c.
—: *Geology* **9**-412a; Cambrian system **5**-87a, **5**-88a (table), **5**-89a; Carboniferous system **5**-312a, **5**-310c; Greenough's map **12**-550a; Old Red Sandstone **8**-127c; Ordovician system **20**-236b, **2**-452c, **3**-239c; Sedgwick's work **24**-577d; Silurian system **25**-111a.
—: *History* **28**-261c; Anglo-Saxon wars **4**-589b, **1**-292a, **13**-11c; Calvinistic Methodists **5**-76d; church in **28**-263a, **28**-265d, **28**-266d; church disestablishment bills **9**-789b; David **7**-859c; Druidism **8**-597c; English suzerainty (10th-11th cents.) **9**-471a foll., **1**-291c; English wars (13th cent.) **9**-493b foll., **8**-992a, **16**-831c; French invasion (1797) **9**-552d; Giraldus **12**-44b; Glendower's revolt **12**-120b, **9**-510d, **21**-136a; Henry II.'s invasion (1157-63) **9**-481c, **9**-483b; Howel Dda's code **13**-838c, **28**-516b; Irish invasions (3rd-4th cents.) **14**-758c; Lee, Rowland **16**-363c; Magna Carta **17**-317b; Norman conquests **9**-476c foll., **19**-755b; Rebecca riots **22**-950c; records **22**-962c; Richard III., revolts against **9**-523a; Roman conquest **4**-583d, **4**-584 (map); serfdom **24**-664d; tribal tenure **28**-68c; Tudors **27**-362b, **13**-286d.
Wales, prince of **22**-344b; **9**-495c; arms **8**-467d, **13**-314c; badge **15**-441b; coronet **24**-36 (Pl. I. fig. 4); garter, order of **15**-857d; precedence **22**-268c.
— and the Marches, Council of: *see* Council of Wales and the Marches.
—, Statute of (1284): *see* Rhuddlan, Statute of.
—, University of **27**-775a; **10**-43b; **6**-639a; colleges **5**-316c, **1**-61b, **3**-317b; hoods **27**-779c; technical education **26**-492d.
Walesby, Notts. **9**-416 (II. F3).
Wale Wale, Go.Cst. **12**-203 (B1).
WALEWSKI, ALEX. F. J. Colonna, comte **28**-270b; **9**-567d; **10**-870b.
Walfisch, ridge, Atl.O. **19**-972d.
Walfish, bay, Jap. **15**-156 (O5); **15**-157b.
— **BAY**, harb., S.W.Af. **28**-270c; **25**-466 (A-B4); **25**-476d.
Walford, Hereford. **9**-420 (III. B3).
—, Ia. **14**-732 (F3).
Walgett, N.S.W. **19**-538 (E2); **2**-943b.
Walha **11**-830b.
Walhalla, Mich. **18**-372 (D6).
—, N.Dak. **19**-780 (F-G1).
—, S.C. **25**-500 (A2).
—, Vict. **28**-38 (D2).
—, monument, Ger. **23**-37c.
Walham Green, Lond. **16**-938 (A-B3); **11**-293c.
Walhar, India **14**-376 (D5).
Walhof, Russ. **12**-735b.
Walhollow Downs Station, S.Aus. **2**-960 (E3).
Walhonding, O. **20**-26 (F4).
Walhouse, Edward, 1st baron Hatherton: *see* Hatherton.
Wali (Urdu poet) **13**-488c.
Walid I. (caliph) **5**-33b; **26**-311a; Indian invasion (711) **14**-401a; religious persecutions **17**-423a.
— II. (caliph) **5**-37d.
—, el **18**-860b.
Walid Ali, tribe **3**-623c; **26**-307c.
Walidiya, Mor. **18**-851 (C2); **18**-859d.
Walid Sliman, tribe: *see* Suleiman, Beni.
Wali Khan **15**-686b.
— Mahommed Nazir: *see* Nasir.
Walis **8**-76d.
Walk, Ala. **1**-460 (A3).
—, Russ. **23**-872 (C4); **16**-817b.
Walkden, Lancs. **16**-139 (D2).
Walke, Henry **19**-516c.
Walkeit, dist., Aby. **1**-92b.
Walkelin (bp. of Winchester) **28**-704c.
— de Ferrers **10**-286b.
Walker, A. G. **24**-505c; **15**-98c.
—, Amasa **28**-270c.
—, Sir Andrew Barclay **16**-806d.
—, Sir Baldwin **19**-484c.
—, C. V. **8**-813c.
—, Ernest **25**-412d.
—, **FRANCIS AMASA 28**-270c; **27**-638a.
—, **FREDERICK 28**-271a; **20**-501c; as illustrator **14**-323b, **22**-196d.
—, **GEORGE 28**-271c; **12**-343d.
—, George H. **18**-494d.
—, Henry (journalist) **19**-553b;
—, **HENRY OLIVER 28**-272c; **19**-460c; **28**-350b.
—, **HORATIO 28**-272c.
—, Sir Hovenden **5**-157d; **22**-728c.
—, I. D. (cricketer) **7**-441d.
—, James (Scottish bp.) **9**-378b.
—, James (chemist) **7**-679d; **4**-251d.
—, James (engineer) **16**-630a.
—, James (of Harvard) **13**-40c.
—, Jeremiah **3**-376c.
—, **JOHN** (writer) **28**-272d.
—, John (druggist) **17**-876b; **6**-940a.
—, John (map publisher) **17**-649b.
—, John G. (general) **13**-14d.
—, Leroy P. **28**-352c.
—, **OBADIAH 28**-272d; **2**-880c; **10**-240d.
—, **ROBERT** (painter) **28**-273a.
—, **ROBERT JAMES 28**-273b; **16**-309a; **15**-659b.
—, Samuel **23**-757d.
—, Sarah **13**-119d.
—, **SEARS COOK 28**-273d; **26**-986b; **19**-387c.
—, **T. A.** (engineer) **27**-401a.
—, Thomas (explorer) **15**-745b; **26**-623b.
—, **THOMAS** (writer) **28**-273d; **7**-75b.
—, Tom (cricketer) **7**-439d.
—, **WILLIAM 28**-274a; California **18**-340d, **5**-22a; Costa Rica **7**-222a; Nicaragua **19**-645b, **5**-677a; treaty (1856) **20**-671d.
— (explorer) **21**-964a.
Walker, Ia. **14**-732 (F2).
—, Ill. **14**-304 (D4).
—, Ind. **14**-422 (E4).
—, Kan. **15**-654 (C2).
—, Minn. **18**-550 (C3); **18**-551c.
—, Mo. **18**-608 (B4).
—, Northumb. **9**-412 (I. E3); **19**-473d.
—, Oreg. **20**-242 (B4).
—, S.Dak. **25**-506 (D-E2).
—, Va. **28**-118 (B2).
—, bay, Cape Col. **25**-466 (D9).
—, bay, Jap. **4**-208b.
—, cape, Green. **12**-543 (C2).
—, fort, S.C. **1**-819d.
—, hospital, Simla **25**-123a.
—, isl., Tas. **26**-438 (A1).
—, lake, Nev. **5**-8 (D2); **19**-451c.
—, mts., Ark. **2**-552 (A3).
—, mts., Oreg. **20**-242 (D4).
—, riv., Cal. and Nev. **5**-8 (D2); **19**-451c.
Walkerburn, Scot. **24**-418 (E-F3); **14**-577a.
Walker Co., Ala. **1**-460 (B2).
Walker Co., Ga. **11**-752 (A1); **11**-752b.
— Co., Tex. **26**-690 (M5).
— Creek, riv., Va. **28**-118 (A-B3).
— Creek, riv., Wyo. **28**-874 (G3-2).
Walkern, Herts. **9**-424 (IV. B3).
Walker River, mts., Nev. **5**-8 (D2).
— River, Indian reservation, Nev. **5**-8 (D2).
Walkers Mills, Pa. **21**-106 (D7).
Walker's Point, Wis. **18**-494d.
Walker Springs, Ala. **1**-460 (B4).
— Station, Ga. **11**-752 (B4).
Walkersville, Md. **17**-828 (E2).
—, Va. **17**-828 (C3).
Walkerton, Can. **20**-114 (B2).
—, Ind. **14**-422 (E2).
Walkerville, Mich. **18**-372 (D6).
—, Mont. **14**-276 (C2); **4**-889c.
Walkham, riv., Dev. **17**-172d.
Walkhampton, Dev. **9**-430 (VI. D2).
Walkill, riv., N.J. **19**-502c.
Walking-beam (derrick) **21**-319b.
— fish **12**-169c (fig.).
— **RACES 28**-274b.
— stick insect: *see* Stick insect.
Walkington, Yorks. **9**-416 (II. F2).
Walkinshaw, Clementina **5**-942a.
"Walk-in-the-Water" (steamboat) **18**-376c; **4**-756b.
Walkley, A. B. **9**-644b.
Walk Mill, Lancs. **16**-139 (E1).
Walkringen, Switz. **26**-242 (D3).
"Walküre, Die" (Wagner) **28**-237c; **19**-80d.
Wall, A. J. (doctor) **6**-265a.
—, J. (porcelain maker) **5**-755a.
—, **RICHARD 28**-274c; **25**-553a.
—, T. S. (explorer) **9**-337c.
— (physicist) **9**-180c.
Wall, Northumb. **9**-412 (I. D2).
—, S.Dak. **25**-506 (C4).
— (Letocetum), Staffs. **25**-758 (B1); **4**-584 (C5); **16**-586b; Watling Street **4**-589a.
—, dist., Lincs. **16**-715c.
—, lake, Ia. **14**-732 (B2).
—, lake, Ia. **14**-732 (D2).
—, mt., W.Aus. **2**-960 (B4).
WALL (arch.) **28**-275a; building **4**-521c, **4**-763b; concrete **6**-836c; fortification **10**-680c; foundation **10**-740a; garden **13**-746c; hollow **4**-522b; masonry **17**-843c; metal-covered **18**-207c; steel concrete **6**-838d.
— (or ditch), Theme of the (Rom. empire) **23**-521d.
Walla (minister) **10**-811a.
Walla, crag, Cumb. **8**-77d.
Wallabi, isls., Austr. **2**-960 (A5).
Wallabie, S.Aus. **2**-960 (D6).
Wallabout, bay, N.Y. **19**-610 (D4); **4**-647b.
—, market, Brooklyn, N.Y. **4**-647b; **4**-648d.
WALLABY 28-275c; **15**-652a; fur **11**-355d, **11**-356d; leather **16**-340d.
WALLACE, ALFRED RUSSEL 28-275c; Australian aborigines **2**-955b; birds' nests **19**-667c; earth's age **11**-651c; evolution **10**-32c, **10**-34b; fertility of hybrids **14**-28a; migration of birds **18**-434c; mimicry **6**-733d; origin of man **2**-114c, **18**-731a; secondary sexual characters **6**-735a; segregation **10**-36d; simultaneous variation **1**-116d; sociology **25**-327b; sterility of species **14**-29c; variation and selection **27**-907c, **24**-749a; zoological distribution **28**-1003b foll.
—, Sir Donald Mackenzie **9**-380a.
—, Edmond **9**-667d.
—, J. F. (engineer) **20**-670a.
—, L. A. (traveller) **26**-396d.
—, **LEWIS 28**-276d; **1**-840c; **1**-824b; Civil War **1**-824b, **13**-14c, **8**-414c.
—, **SIR RICHARD 28**-277a; **13**-397d.
—, Robert **8**-943b.
—, R. W. (physicist) **21**-31d.
—, **SIR WILLIAM** (1270-1305) **28**-277b; **24**-434d; **9**-497d; execution **9**-498a, **8**-557d, **24**-583b; Harry the Minstrel **13**-29c; Marion de Bradfute **3**-922c.
WALLACE, WILLIAM (1768-1843) **28**-278c.
—, **WILLIAM** (1844-1897) **28**-278c; **26**-745c; neo-Hegelianism **18**-245c.
—, Sir William (b. 1856) **11**-291d; **12**-211d.
—, William (b. 1861) **19**-85a; **25**-412d.
—, **WILLIAM VINCENT 28**-278d.
— (buccaneer): *see* Wallis.
Wallace, Ala. **1**-460 (B4).
—, Can. **19**-831 (C2).
—, Fla. **10**-540 (B6).
—, Ida. **14**-276 (A-B2); **14**-278a.
—, Ind. **14**-422 (C4).
—, Kan. **15**-654 (A2).
—, Ky. **15**-740 (D2).
—, La. **17**-54 (b6).
—, Mich. **18**-372 (C4).
—, Mo. **18**-608 (B2).
—, N.C. **19**-772 (E3).
—, Neb. **19**-324 (C4).
—, Va. **28**-118 (B-C1).
—, co., N.Z. **19**-624 (G7 & B6).
—, lake, La. **17**-54 (A1).
—, lake, Vict. **25**-817a.
Wallace (Harry the Minstrel) **13**-29c; **13**-386a.
Wallaceburg, Ark. **2**-552 (B4).
—, Can. **20**-114 (B3).
Wallace Co., Kan. **15**-654 (A2).
Wallace Collection, Lond. **2**-671a; **28**-277a; **16**-948d; **19**-62b; armour **2**-589d; bronze work **12**-291d; commode by Caffieri **4**-945b.
— Beef Barrel, Bothwell Castle **4**-304d.
Wallace's cave, Lanark. Scot. **16**-136c.
— fruit-bat **6**-241c.
— Line **28**-1010c; **2**-947c; birds **3**-973a; spiders **28**-1014a.
— Seat, rock, Scot. **8**-659d.
— Statue, Scot. **24**-418 (F3).
— Trench, earthwork, Scot. **24**-613b.
— Yew **15**-475a.
Wallaceton, Pa. **21**-106 (F4).
—, Va. **28**-118 (F4).
Wallace tower, Ayr, Scot. **3**-74a.
— Town, Scot. **3**-74b.
Wallacetown, Pa.: *see* Waynesboro.
Wallach, Otto **1**-856c; amidines **1**-855a; imidazoles **14**-332a; oxyazobenzene **3**-82c.
Wallachia: *see* Walachia.
Wallachian sheep **24**-819a.
Wallachisch-Meseritsch, Aus. **3**-4 (F2).
WALLACK, JAMES W. 28-279a.
—, John Lester **28**-279a.
Wallacks, race: *see* Vlachs.
Wallack's theatres **28**-279c.
Wallagrass, Me. **17**-434 (D1).
Wallah (Arab oath) **2**-285b.
Wallajapet, India **14**-382 (H13); **2**-447b.
Walland, Tenn. **26**-620 (H2).
Wallander, Axel Sjöberg **20**-516b.
Wallangulla, N.S.W. **19**-538 (D-E1).
Wall-arcades (arch.) **2**-340c.
WALLAROO, S.Aus. **28**-279b; **2**-960 (F6); copper mines **25**-496a, **2**-822c, **2**-952b.
Wallaroo (zool.) **11**-350b.
Wallasea, isl., Ess. **4**-854c.
WALLASEY, Ches. **28**-279b; **16**-139 (A3).
—, dock, Birkenhead **3**-982d.
— Pool, est., Ches. **3**-982a; **28**-279b.
WALLA WALLA, Wash. **28**-279c; **28**-354 (G3).
— Walla, fort, Wash. **28**-279c.
Wallawalla, lake, Vict. **28**-38 (A1).
Walla Walla, riv., Wash. **28**-354 (G3).
Wallawalla, tribe **14**-466a.
Walla Walla Co., Wash. **28**-354 (G3).
Wallbaum, Matthaeus **21**-798a.
Wallbridge, Glos. **25**-1042d.
Wallbrook, Staffs. **25**-758 (A1).
—, stream, Lond.: *see* Walbrook.
WALL-COVERINGS 28-279d.
Wall Creek, riv., Oreg. **20**-242 (F3).
Wall-creeper (zool.) **27**-234d; **1**-754b.
Wall-decoration: *see* Mural decoration.
Walled Lake, Mich. **18**-372 (F2).
Wallega, dist., Aby. **1**-83 (map); gold mines **1**-87c; rainy season **1**-85c.
Walleis, Thomas **8**-693d.
Wallen, Ind. **14**-422 (G2).

Wallenberg, Jakob **26**-217b.
Wallenbuch, Switz. **26**-242 (C3).
Wallendbeen, N.S.W. **19**-538 (E4).
Wallendorf, Ger. **5**-751c.
Wallenpaupack Creek, riv., Pa. **21**-106 (M3).
WALLENSTEIN, ALBRECHT Wenzel Eusebius von 28-280d; **11**-858a; **10**-837d; **26**-854a; army **2**-617a; Arnim **2**-631b; Eggenberg **9**-16d; Kepler **15**-751a; Mecklenburg **17**-1019c; Piccolomini **21**-580d.
Wallenstein (Schiller) **24**-325b; **21**-581a.
Waller, Augustus D. **13**-126c.
—, A. V. **18**-60d.
—, **EDMUND 28**-282b; **9**-621c; **15**-784c; plot (1643) **5**-909a.
—, Sir Hardress **28**-284a; **21**-337b.
—, Horace **16**-815c.
—, John **3**-376b.
—, **LEWIS 28**-283b.
—, Max: *see* Warlomont.
—, **SIR WILLIAM 28**-283b; **12**-405b; **12**-410c; **13**-687b.
Waller, Tex. **26**-690 (M5).
—, mt., Br.C.At. **19**-929a.
Wallerawang, N.S.W. **19**-538 (E-F3); **2**-952c.
Waller Co., Tex. **26**-690 (L5-M6).
Wallerian degeneration **19**-437c; **19**-46c.
Wallerius, J. G. **18**-509c; **11**-647c.
Wallern, Aus. **3**-4 (D2).
Waller-see, lake, Aus. **24**-105a.
Waller's gazelle: *see* Gerenuk.
— hammer **17**-842a.
— plot (1643) **12**-406b; **28**-282d; **5**-909a.
Wallerville, Miss., **18**-600 (D1).
Wallet, Colo. **6**-722 (H2).
Walley, mt., Mass. **17**-852 (B4).
Wall eye **28**-275b.
Wall-eyed pike: *see* Jack-salmon.
Wallface, mt., N.Y. **1**-193a.
Wallflower **13**-767b; **7**-521c; ovule **10**-572c (fig.); seed **11**-260b (fig.).
Wallgate, gate, Macclesfield **17**-203d.
Wallhausen, Ger. **11**-808 (II. i9).
—, Ger. **11**-808 (III. p10).
Wall Heath, Staffs. **25**-758 (A1).
Wall Hills, camp, Hereford. **16**-359a.
Wallhorn, dist., Belg. **16**-691d.
Wallia (Visigothic king) **23**-657c; **25**-539b; **25**-569b (list); Toulouse **27**-100c.
Walliae, Statutum (1284) **28**-848b.
Wallich, G. C. **8**-570d.
Wallin, G. A. **2**-256c.
—, Johan Olof **26**-218d.
Walling, Tenn. **26**-620 (F2).
Walling-crib (mine) **24**-767c.
Wallingford, viscounts, &c.: *see under* Banbury; Knollys.
WALLINGFORD, Berks. **28**-284b; **9**-420 (III. E3); **9**-485d; **9**-480d; in Civil War **20**-417c; John (1213) **3**-784b.
WALLINGFORD, Conn. **28**-284a; **6**-952 (D4).
—(East), Conn.: *see* East Wallingford.
—, Ia. **14**-732 (C1).
—, N.Z. **19**-624 (F4).
—, Vt. **28**-38 (B5).
Wallington, N.Y. **19**-596 (C-D2).
—, Sur. **16**-942 (D3).
—, hall, Northumb. **24**-475d.
Wallis, G. **2**-703c.
—, **JOHN 28**-284d; conics **6**-941d; cipher **7**-565b; continued fractions **7**-32d; cycloid **7**-685d; deaf-mutes **7**-887d; fluxional notation **14**-540d; Hobbes **13**-549a; imaginary quantities **22**-719a; motion **18**-238d; parallelism **11**-726b; quadrature of circle **6**-386a.
—, Samuel **11**-628d; **28**-285c; **11**-362b; Marshall Islands **17**-773c; Patagonia **20**-901d; Paumotus explored **20**-439b; Tierra del Fuego **26**-965d.
— (buccaneer) **3**-683d.
Wallis, Hond.: *see* Belize.
—, canton, Switz.: *see* Valais.
—**ARCHIPELAGO**, Pac.O. **28**-285c; **20**-436 (H6); **20**-437c (table).
Wallis Budge, E. A.: *see* Budge.
Wallischei, Ger. **22**-171d.
Wallisellen, Switz. **26**-242 (F2).
Wallis Run, riv., Pa. **21**-106 (I3).
— Station, Tex. **26**-690 (L-M6).
Wallis's theorem **1**-612c.
Wallisville, Tex. **26**-690 (N6).
Wallkill, N.Y. **19**-596 (A5); **7**-754a.
—, riv., N.Y. **19**-596 (F4); **13**-851d.
Wall Lake, Ia. **14**-732 (B2).
Wallmark, Per Adam **26**-218c.
Wallmoden, L. G. Thedel, count of **11**-175c; **12**-191d; **12**-844d.
WALLON, HENRI ALEXandre 28-285c; **10**-875d; **10**-884a.
Wallonia, Ky. **15**-740 (B2).
Walloomsac, N.Y. **13**-677b.
—, riv., N.Y. and Vt. **19**-420 (A6).
Walloon, lake, Mich. **18**-372 (E-F4).
Walloon (language) **28**-286a; compared with French **11**-106b, **16**-593b; dictionaries **8**-193a.
— literature **28**-286a.
— orphanage, Amsterdam **1**-898a.
WALLOONS (Wallons), people **28**-286a; **16**-593b; in Canterbury **5**-212c; at Sandwich **24**-143c.
Walloostook, riv., Me.: *see* St John.
Wallop (family): *see* Portsmouth, earls of.
—, **SIR HENRY** (*c.* 1540–1599) **28**-287a; **7**-155d.
—, Sir Henry (1568–1642) **28**-287a.
—, **SIR JOHN 28**-287b; **15**-858a.
—, Robert **28**-287a.
Wallop, Nether, Hants.: *see* Nether Wallop.
Wallot, Paul **2**-442c.
Wallowa, Oreg. **20**-242 (H2).
—, lake, Oreg. **20**-242 (H2).
—, riv., Oreg. **20**-242 (H2).
— Co., Oreg. **20**-242 (H-I2).
Wallpack Center, N.J. **19**-502 (C1).
Wall painting **20**-485a; **19**-20b; medieval **19**-25d; miniatures **20**-463d; oil processes **20**-489c; Romanesque **20**-466b.
— paper **28**-280a; **19**-19d; embossed **9**-308d.
— pepper: *see* Stonecrop.
— plate; carpentry **5**-390a; mining shaft **24**-767b; shoring **24**-1004d.
WALLQVIST, OLAF 28-287b.
Wallraf-Richartz, museum, Cologne **6**-697d; **8**-581a.
Wall-rib (arch.) **28**-275b.
Walls, Miss. **18**-600 (B1).
—, Scot. (Orkney) **24**-412 (E1).
—, Scot. (Shetland) **24**-412 (G1); **24**-854c.
—, bay, Scot. (Shetland) **24**-855b.
Wall-saltpetre **24**-94c.
Wallsburg, Utah **27**-814 (C2).
Wallsee, Aus. **10**-450b.
WALLSEND, Northumb. **28**-287d; **9**-412 (I. E2); **4**-584 (C2).
—, N.S.W. **19**-538 (G-H4); **19**-472a.
Walls Ferry, Ark. **2**-552 (D2).
Wallsjö, Swed. **26**-190 (C3).
Wall-stone: *see* Grey-stone.
Wall Street, New York **19**-610 (C5); stock exchange **25**-934b.
Wall tiles: *see under* Tile.
Wallula, Wash. **28**-354 (G3).
Wallum Pond, lake, Mass. and R.I. **17**-852 (A-B1).
Wally die Zweiflerin (K. F. Gutzkow) **12**-745a; **11**-795a.
WALMER, Kent **28**-287d; **9**-424 (IV. E4); castle **6**-378c; marine depot **17**-720c.
— Bridge, Lancs. **16**-139 (B2).
Walmersley, Lancs. **16**-139 (D2).
Walmisley (Walmsley), Gilbert **15**-464b.
—, **THOMAS ATTWOOD 28**-288a.
—, Thomas Forbes **28**-288a.
Walmley, Warwick. **25**-758 (B1).
Walmsley and Smith flour mills **12**-337c.
Walney, isl., Lancs. **9**-416 (II. A1); **11**-363a; fort **3**-443c.
Walnut, Ariz. **2**-544 (C2).
Walnut, Ga. **11**-752 (C1).
—, Ia. **14**-732 (B3).
—, Ill. **14**-304 (C2).
—, Kan. **15**-654 (G3).
—, Miss. **18**-600 (C-D1).
—, Neb. **19**-324 (F2).
—, Pa. **21**-106 (G-H4).
—, hill, Mass. **17**-852 (B4).
—, lake, Wash. **28**-354 (D3).
—, mts., N.C. **19**-772 (B4).
—, pt., Md. **17**-828 (B4).
—, riv., Ind. **14**-422 (F2).
—, riv., Kan. **15**-654 (E3); **2**-556a.
WALNUT 28-288a; **2**-11d; dietetics **8**-216b; geological age **20**-551a; leaves, therapeutic use **3**-285a; ovule **10**-572b; timber **26**-980c, **4**-918d, **10**-659d; U.S. distribution **27**-634b.
Walnut Beach, Conn. **18**-443d.
— Bottom, Pa. **21**-106 (G-H5).
— Cove, N.C. **19**-772 (B1).
— Creek, O. **20**-26 (G3).
— Creek, riv., Ala. **1**-460 (C3).
— Creek, riv., Ga. **11**-752 (C3).
— Creek, riv., Ia. **14**-732 (B3).
— Creek, riv., Ia. **14**-732 (F3).
— Creek, riv., Ill. **14**-304 (B2).
— Creek, riv., Ill. **14**-304 (C3).
— Creek, riv., Kan. **15**-654 (C2).
— Creek, riv., Okla. **20**-58 (D2).
— Creek, riv., Pa. **21**-106 (B1).
— Fork, riv., Ind. **14**-422 (D4).
— Grove, Ala. **1**-460 (C1).
— Grove, Ariz. **2**-544 (B2).
Walnutgrove, Cal. **5**-8 (C2).
Walnut Grove, Ill. **14**-304 (B3).
Walnutgrove, Ky. **15**-740 (D3).
Walnut Grove, Minn. **18**-550 (B6).
— Grove, Miss. **18**-600 (C3).
— Grove, Mo. **18**-608 (C4).
— Hill, Ark. **2**-552 (B4).
— Hill, Ill. **14**-304 (C5).
— Hill, Mass. **28**-767c.
— Hills, O. **6**-373c.
— Lake, Ark. **2**-552 (D4).
Walnut (nut) oil **20**-46a.
Walnutport, Pa. **21**-106 (L4).
Walnut Prairie, Ill. **14**-304 (E4).
— Ridge, Ark. **2**-552 (E1).
— Springs, Tex. **26**-690 (K3).
— Street, penitentiary, Pa. **22**-363c.
— Tree, Ark. **2**-552 (B3).
— Tree, hill, Conn. **6**-952 (C4).
Walo, dist., W.Af. **24**-642c; **28**-777b.
—, riv., Aby. **25**-869b.
Wal Offa, dyke, Wales: *see* Offa's dyke.
Walo-byan, lake, Bur. **4**-839a.
Walpen sands **12**-551c.
Walpole, Charlotte: *see* Atkyns, Charlotte (Lady).
—, George, 3rd earl of Orford: *see* Orford.
—, Henry **28**-290c; **5**-437b.
—, **HORATIO**, or Horace, 4th earl of Orford **28**-288d; **9**-634d; art sale (1842) **2**-699c; Catherine Clive **6**-532a; Chatterton **6**-11d; duc de Choiseul **6**-261d; Gray **12**-393a; Mason **17**-841a; Lady M. W. Montagu **18**-747a; Raspe **22**-913c; Saint-Germain **24**-5d.
—(**OF WOLTERTON**), Horatio, 1st baron **28**-290c.
—, Sir Robert: *see* Orford.
—, Robert **4**-667d.
—, **SIR SPENCER 28**-290b; **10**-431c.
—, Spencer Horatio **9**-568c; **28**-290b.
Walpole, Can. **24**-225 (B-C3).
—, Mass. **17**-852 (E2).
—, N.H. **19**-490 (C5).
—, Suff. **9**-424 (IV. E2).
— Company (1772) **20**-31d.
WALPURGIS, ST 28-290d; **9**-132b.
Walpurgite (min.) **4**-10a.
Walram, count of Nassau **19**-250d.
Walrand-Legenisel process **14**-821c.
WALRAS, MARIE E. L. 28-291a.
Walrus, isl., Can. **1**-472 (C4); **22**-313c.
—, isl., Arct.: *see* Hope.
—, isl., Can. **5**-160 (N3).
WALRUS 28-291b; **5**-375c; **24**-537c; ivory **15**-93b. *See also* Odobaenidae.
Walsh, Can. **20**-114 (B3).
Walsad, India: *see* Bulsar.
Walsall, Pa. **21**-106 (E5).
WALSALL, Staffs. **28**-292a; **25**-758 (B1); geology **25**-757c.
— Wood, Staffs. **25**-758 (B1).
Walschaert (engineer) **25**-834b.
Walsden, Yorks. **28**-933 (A2).
Walsegg, count **18**-951b.
Walsen, Colo. **6**-722 (F4).
Walsenburg, Cal. **22**-633c.
—, Colo. **6**-722 (F4).
Walser Thal, val., Aus. **26**-242 (H2).
Walsh, C. M. **27**-868a.
—, John (physicist) **9**-182a; **14**-245d.
—, **JOHN HENRY 28**-292c; **8**-375c.
—, **PETER 28**-292d.
—, **WILLIAM 28**-293a; **22**-82b.
Walsh, Ill. **14**-304 (C5).
—, riv., Queens. **2**-962b.
— Co., N.Dak. **19**-780 (G1).
Walsham, Hugh **26**-135c.
Walsham, broad, South: *see* South Walsham Broad.
— le Willows, Suff. **9**-424 (IV. D2).
—, North, Norf.: *see* North Walsham.
—, South, Norf.: *see* South Walsham.
Walshaw Lane, Lancs. **16**-139 (D2).
Walshville, Ill. **14**-304 (C4).
Walsingham, Alan of: *see* Alan of Walsingham.
—, Frances **25**-44b.
—, **SIR FRANCIS 28**-293b; Mary Stuart **17**-822a.
—, **THOMAS 28**-295a.
—, Thomas de Grey, 6th baron **19**-66c; **28**-1021c.
Walsingham, Norf. **9**-424 (IV. D1); **19**-745c.
—, Little, Norf. **19**-746d.
Walsmühlen, Ger.: battle (1719) **24**-393d.
Walsoken, Norf. **9**-424 (IV. C1); **19**-745d; church **19**-746d.
Walsoorden, Holl. **13**-588 (B3).
Walston, Pa. **21**-106 (E4).
—, Scot. **24**-418 (E3).
Waltair, India **14**-382 (K11); **28**-164d.
Walter (name) **26**-1027b. *See also* Gautier.
— (of Aquitaine) **28**-298c; **13**-376d.
— (duke of Athens): *see* Athens, duke of.
— (of Biblesworth) **2**-34a.
— (**OF COVENTRY**) **28**-297a.
— (of Durham) **19**-26b.
— (d'Evreux) **28**-699b.
— (of Evesham): *see* Odington, Walter.
— (d'Eyncourt) **22**-930a.
— (of Gisburn): *see* Hemingburgh, Walter of.
— (of Henley) **1**-390b.
— (de Lille) **1**-551b.
— (Lombard king): *see* Walthari.
— (Map): *see* Map, Walter.
— (archdeacon of Oxford) **11**-617a.
— (Ophamil; archbp. of Palermo) **28**-671b; **20**-599c; **21**-341d.
— (de Reddesford) **4**-438c.
— (the Penniless) **7**-527a; **24**-610a.
— (marquis of Saluzzo) **12**-607d.
— (the Steward: of Scotland) **23**-397c; **25**-911b; wife's dowry **3**-513a.
— (of Strasburg) **25**-918d.
— (of Swinbroke): *see* Geoffrey the Baker.
— (von der Vogelweide): *see* Walther von der Vogelweide.
—, Arthur Fraser **28**-296d; **19**-558a.
—, Sir Edward **6**-775d.
—, Eugene **8**-538b.
—, Hervey **4**-879b.
—, **HUBERT 28**-295b; **4**-879c; **9**-485d; innovations **9**-486b; treatise attributed to **9**-602c; Welsh Church **28**-263a.
—, **JOHN** (1739–1812) **28**-295d; **19**-557c.
—, John (1776–1847) **28**-296a; **19**-557c.
—, John (1818–1894) **28**-296c; **19**-557d.
—, **LUCY 28**-296d; **18**-725b.
—, Theobald **4**-879b.
—, Thomas Ustick **12**-445d; **21**-368a.
—, W. G. E.: *see* Loveling, Virginie.
Walter, Okla. **20**-58 (C3).
Walter A. Wood Mowing and Reaping Machine Co. **13**-677b.
Walterboro, S.C. **25**-500 (D4).
Walterhausen, glacier, Green. **12**-543 (F-G3).
Walter Press **19**-558a.
Walters, Henry **3**-289a.
Waltersburg, Ill. **14**-304 (D6).
—, Pa. **21**-106 (C6).
WALTERSHAUSEN, WOLFgang Sartorius, baron von 28-297b.
Waltershausen, Ger. **11**-808 (III. o11).
Walters Park, Pa. **21**-106 (K5).
Walterstone, Hereford. **9**-420 (III. B3).
Walter Thymen, str., Arct. **21**-938 (B2).
Walter Tirel (Tyrrell): *see* Tirel, Walter.
Waltertown, Ga. **11**-752 (D4).
Walter *v.* Howe (1881) **7**-120b.
— v. Lane (1900) **7**-120c; **23**-108a.
— v. Steinkopff (1892) **7**-120b.
Walterville, Oreg. **20**-242 (C3).
Walthall, Edward Cary **13**-616c.
Walthall, Miss. **18**-600 (C2).
Walthalls, Ala. **1**-460 (B3).
Waltham, John de **27**-331a.
Waltham, Can. **22**-724 (A3); **20**-369b.
— (North), Hants.: *see* North Waltham.
—, Lincs. **9**-416 (II. G2); **24**-363d.
WALTHAM, Mass. **28**-297b; **17**-852 (A4).
—, Minn. **18**-550 (E7).
—, forest, Ess. **9**-708b.
—**ABBEY**, Ess. **28**-297d; **16**-942 (E2); whipping post and stocks **28**-590d.
— Black Act (1823) **11**-442c.
— Chase, forest, Hants. **12**-903b.
— Cross, Herts. **16**-942 (D2); highwaymen **4**-564b.
— Holy Cross, Ess.: *see* Waltham Abbey.
— on the Wolds, Leics. **9**-420 (III. F1).
WALTHAMSTOW, Lond. **28**-298b; **16**-938 (D1); East London water-works **9**-784c; geology **9**-784b.
Walthari (Lombard king) **16**-932d.
WALTHARIUS 28-298c; **11**-784b; *Waldere* **9**-608a.
WALTHEOF (earl of Northumbria) **28**-299a; execution **9**-476d, **3**-655d.
Walther (name): *see* Walter.
—, **BERNHARD 28**-299a; **2**-811a; clocks driven by weights **26**-984a; observatory **19**-954a.
—, Johann (musician) **14**-197b; **6**-269c.
—, Johannes (palaeontologist) **20**-580b.
— **VON DER VOGELWEIDE 28**-299b; **11**-785d; **18**-548b.
Walthew, R. **14**-360b.
Walton, Abraham **26**-303b.
—, **BRIAN 28**-300b; **3**-883d.
—, E. A. **20**-502a.
—, Frank (painter) **20**-501c.
—, F. (inventor) **10**-527b.
—, George **2**-904c.
—, **IZAAK 28**-300d; **9**-628a; **3**-953c.
Walton, Can. **19**-831 (B-C2).
—, Cumb. **9**-412 (I. C3).
—, Derby **9**-416 (II. E3); **8**-71d.
—, Ill. **14**-304 (C2).
—, Ind. **14**-422 (E3).
—, Kan. **15**-654 (E2).
—, Ky. **15**-740 (D2).
— (Higher), Lancs. **16**-139 (C2).
—, Mich. **18**-372 (E5).
— (West), Norf. **9**-424 (IV. C1); **19**-746d.
—, N.Y. **19**-596 (E3).
—, Oreg. **20**-242 (B3).
—, Som. **25**-390b.
—, Staffs. **9**-416 (II. C4).
—, Suff. **9**-424 (IV. E3); **10**-240a.
—, Sur. **10**-606a.
—, W.Va. **28**-560 (B3).
—, Yorks. (nr. Wakefield) **28**-933 (D2).
—, Yorks. (nr. Wetherby) **28**-933 (D1).
— Co., Fla. **10**-540 (C6).
— Co., Ga. **11**-752 (C2).
— East, Wales **9**-428 (V. B4).
— hall, Warwick. **28**-343d.
Waltonian group (geol.) **21**-847c.
WALTON-LE-DALE, Lancs. **28**-301c; **16**-139 (C2).
—le-Soken, Ess.: *see* Walton-on-the-Naze.
—**ON-THAMES**, Sur. **28**-301c; **16**-942 (C3).
— on the Hill, Lancs. **16**-139 (B3); **16**-143b.
— on the Hill, Sur. **16**-942 (D3).

WALTON - ON - THE - NAZE (Walton-le-Soken), Ess. **28**-301d; **9**-424 (IV. E3); geology **9**-784b.
—, red crag of **21**-847b.
— upon Trent, Derby. **9**-416 (II. D4).
Waltonville, Ill. **14**-304 (C5).
—, Pa. **21**-106 (I5).
Walton, West, Wales **9**-428 (V. A4).
Waltz, Mich. **18**-372 (G7).
Waltz (dance) **7**-799c.
WALTZING MOUSE 28-301d.
Waluewite **6**-530d.
Waiwai, Aby. **25**-379 (D4).
Walworth (abbot) **1**-25b.
—, **SIR WILLIAM 28**-302a; peasants' revolt (1381) **9**-508b.
Walworth, Lond. **16**-938 (C3).
—, N.Y. **19**-596 (C2).
—, Wis. **28**-740 (E6).
— Co., S.Dak. **25**-506 (E-F2).
— Co., Wis. **28**-740 (E6).
— Run, riv., O. **6**-503d.
Walwyn, William **16**-506b; **16**-682d.
Walwyn's Castle, Wales **9**-428 (V. A4).
Walzin, Belg. **16**-494d.
Wam, Ash. **12**-203 (A3); **2**-725d.
Wam (geol.) **28**-435d.
Wamala, lake, Ugan. **27**-557 (B2); **27**-558c.
Wamanga (language) **3**-359b.
Wamba (Visigothic king) **25**-540b; **25**-569d; legend **12**-695d.
Wamba, riv., Bel.Cong. **6**-923 (B4); **15**-684d.
Wambraw Creek, riv., S.C. **25**-500 (E3).
Wambugwe, tribe **1**-330b.
Wambundu, tribe **1**-330c.
Wambutti, tribe: *see* Bambute.
Wamego, Kan. **15**-654 (F1).
Wamel, Holl. **13**-588 (C3).
Wamfumu, tribe **1**-330c.
Wamgumbaug, lake, Conn. **6**-952 (F2).
Wami, riv., Ger.E.Af. **11**-771 (C2); **11**-772b.
Wamic, Oreg. **20**-242 (D2).
Wamme, riv., Belg. **3**-668 (F3).
Wampanoag, tribe **1**-656b; rising (1674) **21**-389d.
Wamphray, Scot. **24**-412 (E4).
Wampoa, isl., China: *see* Whampoa.
Wampoo, Ark. **2**-552 (C3).
Wampool, riv., Cumb. **9**-412 (I. B3); **25**-377d.
Wampoto, tribe **1**-330c.
Wampsville, N.Y. **20**-106a.
Wampum, Pa. **21**-106 (B4).
WAMPUM 28-302b.
Wamses, North, isl., Farne Is. **9**-412 (I. E1); **10**-183b.
—, South, isl., Farne Is. **9**-412 (I. E1); **10**-183b.
Wamsutta, Alexander **21**-389c.
Wamsutter, Wyo. **28**-874 (D4).
Wamwera, tribe **1**-330c.
Wan, China **6**-168 (H3); **26**-319d.
WANA (Wano), India **28**-302d; **14**-376 (C3); Waziri attack (1894) **28**-436c.
—, riv., India: *see* Wanna.
—, val., India **19**-795c.
Wanaaring, Austr. **19**-538 (B-C1).
Wanadur (myth.): *see* Vanatur.
Wanaha, park, Wash. **28**-354d.
Wanaka, lake, N.Z. **19**-624 (B6).
Wanaka group: *see* Arorere group.
Wanakena, N.Y. **19**-596 (E-F1).
WANAMAKER, JOHN 28-302d.
Wanamaker, Ind. **14**-422 (E5).
Wan Aman (of Pahang) **17**-481d.
Wanamie, Pa. **21**-106 (K3).
Wanapitei, lake, Can. **20**-114 (D2).
Wanaque, N.J. **19**-502 (D1).
—, riv., N.J. **19**-502 (D1); **19**-502c.
Wanatah, Ind. **14**-422 (D2).
Wanawana, isl., Pac.O. **20**-436 (I9).
Wanborough, Sur. **16**-942 (B4).
—, Wilts. **9**-420 (III. D3); **28**-700b; battle (592) **5**-592c.
Wanchese, N.C. **19**-772 (G2).
Wan-chow, China **6**-168 (I6); **12**-821c.
Wan Da (of Pahang) **17**-481d.
Wanda, Ill. **14**-304 (B5).
—, Minn. **18**-550 (B6).
—, mt., Fr.Cong. **11**-99 (B1).
Wandel, isl., Antarc. **21**-970d.
Wandelaar, Jan **1**-934c.
Wandelbert (of Prüm) **17**-805b.
Wandelgem, Belg. **3**-668 (C1).
Wandel Land, dist., Green. **12**-543 (D3).
Wandenkolk, Admiral **4**-461a.
Wanderer, mine, Rhod. **23**-262d.
WANDERU (Wanderoo) **28**-303a; *see also* Lion-tailed macaque.
WANDESFORD, CHRISTOPHER 28-303a.
Wandl, Egy. **9**-127d.
WANDIWASH, India **28**-303b; battle (1760) **14**-407d.
Wandle, riv., Sur. **16**-942 (D3); **26**-139d; **26**-723d.
Wando, riv., S.C. **25**-500 (E4); **25**-500d.
—, riv., Vict. **28**-42c.
— Passo, chan., S.C. **25**-500 (E3).
Wandorobo, tribe **4**-603a; **17**-835a; dialect **19**-161c.
Wandrille, St **24**-52b.
WANDSBEK, Ger. **28**-303b; **11**-808 (C2).
WANDSWORTH, Lond. **28**-303b; **16**-938 (A-B3); geology **16**-939a; Presbyterian church (1572) **22**-289b.
— Bridge, Lond. **16**-938 (B3).
— Common, Lond. **16**-938 (B3); **28**-303c.
Wandunya, W.Aus. **2**-960(D5).
Wane Rusari, isl., Bel.Cong. **6**-915c.
Wanette, Okla. **20**-58 (D2-3).
Waney edge **26**-979b.
Wanfried, Ger. **11**-808 (III. o10); **13**-413b.
Wang (the founder) **15**-911c.
— (Mongol khan) **18**-716a.
Wang (dynasty) **15**-911c.
Wanga, riv., E.Af.: *see* Umba.
Wangaehu, N.Z. **19**-624 (E4).
Wangalarra, lake, N.S.W. **19**-538 (C2).
Wang An-shih (reformer) **6**-227c.
WANGANUI, N.Z. **28**-303c; **19**-624 (E4); **19**-629b.
—, inlet, N.Z. **19**-624 (D4).
—, riv., N.Z. **19**-624 (E3); **19**-624c; geology **19**-625a.
— group **21**-848a.
WANGARA, dist., W.Af. **28**-303d; **24**-641b; **19**-676b.
Wangara, people: *see* Mandingo.
WANGARATTA, Vict. **28**-304a; **28**-38 (C-D2); turquoise **2**-953c.
Wangarawa, people: *see* Mandingo.
Wangat, N.S.W. **19**-538 (F3).
—, riv., Kashmir **15**-687c.
Wangava, isl., Fiji **10**-335 (C2).
Wang-Chai-Tai, bay, China **6**-168 (K2).
Wang-Chi-Fou (dramatist) **8**-484d.
Wang Ch'ung (philosopher) **6**-227a.
Wange, Belg. **19**-341 (plan).
Wangen, Switz. **26**-242 (D2); **16**-92b.
Wangenheim (soldier) **24**-720a.
Wangerin, Ger. **11**-808 (E2).
Wangeroog, isl., Ger. **11**-808 (B2); **11**-233c.
Wangford, Suff. **9**-424 (IV. F2).
Wang Hsi-chih (scribe) **6**-220d.
Wang-in (scholar) **15**-255b.
Wangi Wangi, isl., Mal.Arch. **17**-466 (E4).
Wang-kiang, China **6**-168 (K3).
Wang Mang (soldier) **6**-195a.
Wang-mu, China **6**-168 (H4).
Wang Na: *see* Chao Uparach.
Wangoni, tribe: *see* Angoni.
Wangonilla, N.S.W. **19**-538 (C4).
Wanguru, tribe **1**-330c.
Wang Wei (painter) **4**-223c; **6**-214a.
—Yang-ming (author) **15**-170c.
Wa Nindi, tribe **28**-1050d.
Wanj, C.Asia **20**-420d.
Wanje, riv., S.L.: *see* Kittam.
Wankaner, India **14**-376 (D8).
Wanke, Minn. **18**-550 (B3).
Wanki, Ash. **12**-203 (A3).
Wankie, Rhod. **25**-466 (H2); **23**-260 (B3).
—, dist., Rhod. **25**-466 (G-H2).
Wankinco, riv., Mass. **17**-852 (F3).
Wanklyn, J. A. **1**-136a.
Wankoré: *see* Mandingo.
Wanks, riv., C.Am.: *see* Segovia.
Wankuma, Go.Cst. **12**-203 (A2).
Wanley, Humphrey **1**-255c.
Wan-li (Chinese emperor) **6**-197d.
Wan-li porcelain **5**-746c.
— Wu ts'ai porcelain **5**-746c.
Wanlockhead, Scot. **24**-412 (E4); mines **16**-320c; minerals **24**-425d, **27**-878d.
Wann, Okla. **20**-58 (F1).
Wanna, riv., India **14**-382 (H9); **28**-322c.
Wannaska, Minn. **18**-550 (B2).
Wannee, Fla. **10**-540 (D2).
Wannehorn, Gross, mt., Alps: *see* Gross Wannehorn.
Wanner pyrometer **26**-835d.
Wanneta, Pa. **21**-106 (B2).
Wannon, riv., Vict. **28**-42c.
Wannsee, Ger. **3**-788 (map).
—, lake, Ger. **3**-788 (map); **3**-789a.
—, Kleiner, lake, Ger. **3**-788 (map).
Wan Phra (rel.) **25**-6c.
Wang (Armenian resthouses) **2**-570c.
Wanradharam, India **14**-376 (E-F4).
Wanroy, Holl. **13**-588 (C3).
Wansbeck, riv., Northumb. **9**-412 (I. E2); **19**-790b; **18**-862b.
Wanschaff, H. **11**-611b.
Wan's Dyke: *see* Woden's Dyke.
Wansen, Ger. **11**-808 (F3).
Wansfell, hill, Westmorland **1**-795b.
Wansford, Northants. **13**-952b; geology **13**-951d.
Wanship, Utah **27**-814 (C2).
WANSTEAD, dist., Ess. **28**-304a; **16**-942 (E2).
Wanswerd, Holl. **13**-588 (C1).
WANTAGE, Berks. **28**-304b; **9**-420 (III. E3); **25**-160c.
Wantage of Lockinge, R. J. L. Lindsay, baron **28**-304b.
Wantastiquet, mt., N.H. **19**-490 (B-C6).
Wan Te (emperor) **8**-484b.
Wan-tso, China **6**-168 (H2).
Wantsum, stream, Kent **24**-143b; **26**-725c.
Wanyamwanga, people **1**-330c.
Wanyamwezi, people **27**-782a; **1**-328c; **1**-330b.
Wanyanyembe, tribe **1**-330b.
Wanyasa, Jav. **15**-289d.
Wanyaturu, people **1**-330b.
Wanyika, tribe **4**-602d; **1**-330c.
Wanzer lamp **16**-653c.
Wapakoneta, O. **20**-26 (B3).
Wapanucka, Okla. **20**-58 (E3).
— limestone **27**-631b.
Wapata, lake, Can. **24**-225 (B1).
Wapato, Washington **28**-354 (E3).
Wapella, Ill. **14**-304 (C3).
Wapello, Ia. **14**-732 (F3).
— Co., Ia. **14**-732 (E3-4).
WAPENSHAW 28-304c.
WAPENTAKE 28-304c; **7**-804a.
Wapfuru (race) **1**-330c.
Wapi, Ida. **14**-276 (C4).
Wapinitia, Oreg. **20**-242 (D2).
Wapitagun, isl., Can. **22**-724 (F2).
Wapiti, mt., Colo. **6**-722 (B1).
—, riv., Can. **1**-500 (A2).
Wapiti **7**-923b; **5**-147d; hunting **24**-1002a.
Wapokomo, tribe **1**-328c; **1**-330b.
Wappasening Creek, riv., Pa. **21**-106 (K2).
Wappenham, Northants. **9**-420 (III. E2).
WAPPERS, EGIDE CHARLES GUSTAVE, baron **28**-304d; **20**-507b.
Wapping, dist., Lond. **16**-938 (D2); **25**-889c; **22**-229c.
Wappinger Creek, riv., N.Y. **19**-596 (B5).
Wappingers Falls, N.Y. **19**-596 (A-B5).
Wapsipinicon, riv., Ia. **14**-732 (G3); **14**-732c.
Wapsipinicon group **27**-631a.
Wapta, pass, Can.: *see* Kicking Horse.
Waptus, lake, Wash. **28**-354 (D2).
Wapustagamu, lakes, Can. **22**-724 (F2).
Wapwallopen, Pa. **21**-106 (K-L3).
Waqf: *see* Wakf.
WAQIDI (Arab. author) **28**-304d; **2**-276a.
Waquoit, bay, Mass. **17**-852 (F3).
War, hills, Sahara: *see* Tummo.
WAR 28-305a; **15**-992c; **21**-7b; **6**-408c; **6**-965b; correspondents **19**-548d, **19**-564c, **23**-422c; evolution, technical **2**-592b, **14**-517d, **5**-563d; gods and goddesses **2**-455a, **17**-760b, **14**-871a, **2**-829a, **14**-760a; Mahommedan system **17**-413d; medieval warfare **22**-895b, **7**-524c, **7**-547b, **27**-321b; modern warfare **26**-852b, **12**-403c, **25**-599b, **13**-342c, **11**-172c; Society of Friends **11**-226b. *See also* Army, Navy, Infantry, Ship, &c.; Seven Years' War, &c.
War, *Laws of* **28**-312a; blockade **4**-72c; capitulation **5**-283c; contraband of war: *see* Contraband; disarmament **21**-9d; embargo **9**-306c; eminent domain **9**-339b; Geneva Convention **11**-592a; Hague rules **27**-314c, **2**-4d; hospital ships **11**-592c; immunity doctrine **14**-339c; international maritime law **7**-914b; neutrality laws **19**-441d; plunder **7**-855d; prize of: *see* Prize; sea command **24**-529b.
—, secretary of (U.S.) **27**-679b.
—, secretary of state for (Eng.) **18**-544d.
Warali, tribe **4**-187c; **10**-79d; **2**-52d.
Waramaug, lake, Conn. **6**-952 (B3).
Waran, val., India **26**-1005d; **26**-1006b.
Waranary, mts., N.S.W. **19**-538 (C3).
WARANGAL, India **28**-316b; **14**-382 (H-I10); **5**-394a; **7**-911c.
—, coal fields: *see* Singareni.
WARASDIN, Hung. **28**-316b; **3**-4 (E3); **18**-444d.
—, mts., Hung. **7**-472a.
—, prov., Hung. **7**-475a.
Waratah, N.S.W. **19**-538 (H3); **19**-471d.
—, Tas. **26**-438 (A1).
—, Vict. **28**-38 (C3).
—, bay, Vict. **28**-38 (C-D3).
Waratah (bot.) **2**-949c.
Wa'rat es-Sakiya, plateau, Pal. **20**-602 (E2).
Warbasse, N.J. **19**-502 (C1).
Warbeck, Katherine: *see* Cradock.
—, **PERKIN 28**-316c; **24**-441d; **9**-524d; **22**-239a.
Warberry group **8**-126d.
Warble fly **8**-897c; **8**-307d; **8**-308c.
WARBLER 28-317a; **10**-226c; **15**-809d.
Warbleton, Sus. **9**-424 (IV. C5).
Warblington, Hants. **9**-420 (III. F5); **12**-903c; **13**-78d.
Warboys, Hunts. **9**-424 (IV. B2); **13**-953b.
Warbreck, Lancs. **16**-139 (A1).
Warbstow, Corn. **9**-430 (VI. C2).
Warburg, E. G. **6**-881c; **6**-865a.
—, Karl Johan **26**-221a.
Warburg, Ger. **11**-808 (B3); battle (1760) **24**-720c, **12**-341d.
Warburg's tincture **22**-758a.
WARBURTON, BARTHOLOMEW E. G. 28-317d.
—, Henry **6**-752c.
—, P. Egerton **2**-961b.
—, **SIR ROBERT** (Col.) **28**-318a; **15**-782c.
—, **WILLIAM 28**-318a; **11**-932b; **13**-958b; **5**-743b.
Warburton, Ches. **16**-139 (D3).
—, Vict. **28**-38 (C2).
—, mts., S.Aus. **2**-960 (E6).
—, riv., S.Aus. **2**-960 (F5).
War canoe **5**-189d.
Warceslaus (of Stettin) **4**-159c.
Warcha, salt mines, India **24**-94c.
Warche, riv., Ger. **17**-493b.
Warchi, India **14**-376 (G2).
Warcop, Westm. **9**-412 (I. D3).
— Fell, ridge, Westm. **9**-412 (I. D3).
WARD, ADOLPHUS W. 28-319a.
—, Artemas (general) **17**-860b.
—, **ARTEMUS** (C. F. Browne) **28**-319b; **1**-841b.
—, Edward (Ward), baron: *see under* Dudley, barons and earls of.
—, **EDWARD MATTHEW 28**-319b.
—, **ELIZABETH S. P. 28**-319c.
—, Elise **24**-516c.
—, Frederick Townsend **6**-199d.
—, Sir Henry **5**-782d.
—, Henry Augustus **23**-431a.
—, Herbert **24**-507c.
—, Herbert Dickinson **28**-319d.
—, Holcombe **16**-303d.
—, Horatia **19**-358b.
—, H. Marshall **11**-344d; **3**-168d; **21**-750a.
—, Mrs Humphry: *see* Ward, Mary Augusta.
—, J. (fl. 1896) **1**-379d.
WARD, JAMES (painter) **28**-320a; **3**-577c.
—, **JAMES** (philosopher) **28**-320b; **18**-247c; **22**-298a.
—, Jem **22**-639a.
—, John (fl. 1662) **24**-775d.
—, **JOHN QUINCY ADAMS 28**-320b; **24**-516b; "George Washington" **24**-507 (Pl. VI.).
—, John William, 4th viscount Dudley: *see under* Dudley, barons and earls of.
—, Joshua **26**-65d.
—, Julia: *see* Howe, Julia Ward.
—, Leslie ("Spy") **5**-333a.
—, **LESTER F. 28**-320c; **20**-546b.
—, Mary (nun) **18**-691b.
—, **MARY A.** (Mrs Humphry Ward) **28**-320d; Passmore Edwards settlement **24**-34d.
—, Nathaniel **1**-831c; **14**-739b.
—, Richard E.: *see* Stinde, Julius.
—, **SETH 28**-321c; **13**-549a.
—, Thomas **5**-934d.
—, Thomas Humphry **28**-320d.
—, **WILLIAM** (mezzotint-engraver) **28**-321d.
—, William, earl of Dudley: *see under* Dudley, barons, etc.
—, **WILLIAM GEORGE 28**-321d.
—, William Hayes **13**-535b.
— (stained glass worker) **12**-110b.
— *v.* State of Maryland **22**-371b.
— *v.* Turner (1751) **8**-408d.
Ward, Ark. **2**-552 (C2).
—, Colo. **6**-722 (E1).
—, La. **17**-54 (B3).
—, Pa. **21**-106 (K7).
—, S.Dak. **25**-506 (I3).
—, W.Va. **28**-560 (B3).
—, fort, Wash. **24**-563b.
—, hill, Scot. (Orkney) **24**-412 (E1); **13**-841b.
—, hill, Scot. (Pomona) **22**-48d.
—, hill, Scot. (Shetland) **24**-855a.
—, inlet, Can. **5**-160 (Q3).
—, mt., N.Z. **19**-624 (B5).
WARD (dict.) **28**-322b.
— (of a borough) **4**-269c; **4**-270d.
Wardak, val., Afg. **15**-625d.
War dance **7**-796b.
Wardapets (rel.) **2**-570c.
Ward Co., N.Dak. **19**-780 (B-C1).
— Co., Tex. **26**-690 (D-E4).
Warde, Thomas (of Trumpington) **24**-438d.
Wardell, E. A. **26**-660b.
—, W. W. **26**-279a.
Warden, H. D. **20**-155a; Basuto expedition **3**-505b; Bloemfontein founded **4**-74c; Harrismith founded **13**-22c.
Warden, Northumb. **27**-500d.
— (Old), Beds.: *see* Old Warden.
WARDEN 28-322c; of Fleet prison **10**-492d; of gilds **12**-15b, **12**-16a; of the standards **25**-772c.
— line, boundary, Or.Fr.St. **20**-155b.
Wardensville, W.Va. **28**-560 (E2).
Wardha, India **14**-382 (H9); **28**-322c.
WARDHA, dist., India **28**-322c; **5**-681c.
—, riv., India (trib. of Pranhita) **14**-382 (H10); **28**-322c; **5**-837b; **19**-152b.
—, riv., India (trib. of Tungabhadra): *see* Varada.
Ward Hunt, cape, N.G. **19**-487 (F2).
— Hunt, isl., Arct. **21**-938 (A2).
Wardie shales **8**-945b.
WARDLAW, ELIZABETH, Lady **28**-322d; **3**-265b.
—, **HENRY 28**-323a.
—, Walter **28**-323a.
Wardle, Colonel **7**-481c.
—, Sir Thomas **25**-101d.
Wardle, Lancs. **16**-140b.
Wardley, Ann. **24**-771a.
—, James **24**-771a.
Wardley, Lancs. **17**-545 (map).
Ward, Lock and Tyler **18**-949a.
Wardmote, grand court of **18**-693d.
Wardner, Ida. **14**-276 (A2).
Ward of Birmingham, barons: *see under* Dudley, barons, etc.
Wardour, castle, Wilts. **9**-420 (III. C4); **2**-420c; **2**-710b; **17**-112c.
—, val., Wilts. **28**-698b foll.

Wardour stone **22**-122b.
WARDROBE 28-323a; **2**-578a.
WARD-ROOM 28-323b.
Wardrop, James **26**-129b.
Wards, isl., N.Y. **19**-596 (I2); **19**-610d.
Wardsboro, Vt. **19**-490 (B5).
Ward's Folly: *see* Barndoor Match.
Wardship **15**-868a; **10**-301b; **9**-535d; knighthood as release **15**-859d; sale **15**-859a.
Wardville, Okla. **20**-58 (E3).
Wardwan, riv., India **15**-687b.
Ware, Henry **13**-38d; **27**-596b.
—, Isaac **2**-420c; **6**-237c.
—, Sir James **14**-755a.
—, L. E. **16**-304a.
Ware, Ala. **1**-460 (C3).
—, Ark. **2**-552 (B4).
WARE, Herts. **28**-323b; **9**-424 (IV. B3); Roman Catholic college **1**-693a.
—, Ia. **14**-732 (C2).
WARE, Mass. **28**-323c; **17**-852 (C2).
—, riv., Mass. **17**-852 (C2).
— Co., Ga. **11**-752 (D4).
—, Great Bed of **28**-323c.
War Eagle (chief) **25**-150d.
Wareagle, Ark. **2**-552 (A1).
War Eagle, W.Va. **28**-560 (A-B4).
— Eagle, mine, Can. **23**-752d.
— Eagle Creek, riv., Ark. **2**-552 (B1).
Warega, tribe **1**-330b.
Waregta, lake, Br.E.Af. **4**-601 (C2).
Wareham, John **28**-713d.
WAREHAM, Dorset. **28**-323c; **9**-420 (III. C5); **8**-435c; geology **8**-434d.
—, Mass. **17**-852 (F3).
Warehorne, Kent. **9**-424 (IV. D4).
Warehouse (Warehousing) **7**-48a. *See also* Bonded warehouse.
— Act (1846) **8**-346d.
Warehouse Point, Conn. **6**-952 (E2).
Warelwast, William **21**-865b.
Waremme, Belg. **3**-668 (F2).
Waren, Ger. **11**-808 (D2).
Warendorf, Brun **17**-86d.
Warendorf, Ger. **11**-808 (A3); **28**-556c.
War-engine: *see* Engine.
Wareni, D.N.G. **19**-487 (C1).
WARENNE, EARLS 28-324a; **19**-746a; **16**-521d; arms **13**-321a (fig.); Mortimer family **18**-879a.
—, John de Warenne, earl (d. 1304) **28**-324c; **9**-496d; **24**-434d.
—, John de Warenne, earl (d. 1347) **28**-324c; **9**-499b; **9**-500a.
—, Reginald de **16**-521d.
—, Richard Fitzalan, earl: *see* Arundel, Richard Fitzalan, earl of.
—, William de, 1st earl **28**-324a; **17**-2a; Cluniac house **6**-570b; coffin **16**-521c.
— and Surrey, John, earl of: *see* Norfolk, John Mowbray, 4th duke of.
Warens, Louise Eléonore, baronne de **23**-775b.
Waresboro, Ga. **11**-752 (D4).
Waretown, N.J. **19**-502 (D4).
Warfield, Benjamin **22**-346c.
Warfield, Berks. **16**-942 (B3).
—, Ky. **15**-740 (F3).
—, Va. **28**-118 (E4).
Warfordsburg, Pa. **21**-106 (F6).
Warfum, Holl. **13**-588 (D1).
WAR GAME 28-324d.
Wargaon, India **14**-409d.
Wargentin, P. **17**-354a; **2**-814d.
WARGLA, Alg. **28**-325b; **1**-643 (C3); Ibadites **19**-145d.
Wargrave, Berks. **9**-420 (III. F3).
WARHAM, WILLIAM 28-325c; **9**-729a; **3**-452c; cup **5**-745c.
Warham, Dorset.: *see* Wareham.
— St Mary, Norf. **9**-424 (IV. D1).
War-hat **13**-248c.
War horse: *see* Shire horse.
Warhorse (game-fowl) **6**-626d.
Wari, India: *see* Sawantwari.
— (Owari, Oywheré), Nig. **19**-678 (B-C5); **3**-738b; **19**-675b.
—, riv., India **14**-376 (B8); **4**-186c.
—, tribe **1**-329d.
Warialda, N.S.W. **19**-538 (F1).
Wariatu **26**-358b.
Warin (the Bald) **20**-365a.
Warin (falconer) **16**-808b.
—, Claude and Jean: *see* Varin.
— Fitzgerald **28**-517a.
Waring, George Edward **19**-623d.
—, Jane **26**-225b.
— (mathematician) **19**-859d.
Waring *v.* Clark **1**-208b.
Waring, pt., Arct. **21**-938 (A1); **25**-10 (O1).
—, stream, Lincs. **13**-708c.
Waringin, riv., Mal.Arch. **3**-319c.
Waringstown, Ire. **14**-744 (E2).
Warinus, a Briton **13**-298c.
Waripari, bay, N.Z. **19**-624 (G3).
Warisoulx, Belg. **3**-668 (E2).
Waris Shah **13**-483c.
Wark, Northumb. **9**-412 (I. D2); castle **19**-793a; history **19**-792c, **1**-488d.
Warka, Turk.As. **26**-305 (F-G4); **9**-735a; **2**-374d: *see also* Erech.
Warks Burn, riv., Northumb. **9**-412 (I. D2).
WARKWORTH, Northumb. **28**-326a; **9**-412 (I. E2); **19**-792d; **7**-130c; harbour **9**-412 (I. E2), **19**-791b.
—, N.S.W. **19**-538 (F3).
—, N.Z. **19**-624 (E2).
Warlaby, Yorks. **9**-412 (I. F4).
Warley (Great), Ess. **16**-942 (F2); **9**-785a.
— (Little), Ess. **16**-942 (F2).
—, Worcs. **20**-66b.
Warlingham, Sur. **16**-942 (D3).
WARLOCK (dict.) **28**-326b.
Warlomont (Max Waller) **3**-680d.
Warltire, John **5**-580d.
Warman, Can. **24**-225 (A2).
Warmbad, Ger.S.W.Af. **25**-466 (D7); **11**-801c.
Warm Bokkeveld, dist., Cape Col. **5**-227d; **5**-229d.
Warmbrunn, Ger. **25**-90c.
Warme Sense, riv., Switz. **26**-242 (C3).
Warmfield, Yorks. **28**-933 (D2).
Warming, E. **21**-760c.
Warming-pan ministry **5**-242d.
Warmington, Northants. **9**-424 (IV. B1); **19**-770a.
—, Warwick. **9**-420 (III. E2); **28**-343c.
WARMINSTER, Wilts. **28**-326b; **9**-420 (III. C4); **28**-698b; hundred **28**-699b.
— beds **11**-534c.
Warmland, duke of **12**-739a.
Warmond, Holl. **13**-588 (B2).
Warmspring, Oreg. **20**-242 (D3).
Warm Spring, riv., Oreg. **20**-242 (D3).
— Springs, Ala. **1**-460 (C2).
Warmsprings, Ark. **2**-552 (D1).
Warm Springs, Mont. **18**-756a.
— Springs, Va. **28**-118 (C2); **18**-522a.
— Springs Fork, riv., Oreg. **20**-242 (C-D2).
— Springs, Indian reservation, Oreg. **20**-242 (D3); **20**-245c.
Warn (dict.) **11**-473c.
Warna, lake, Java **22**-265d.
—, riv., India **14**-382 (E-F11).
Warnabi, tribe **11**-832a.
Warnachaire (mayor of the palace) **10**-805c; **10**-806a.
Warnack (Warneck), Christian: *see* Wernigke.
Warnefrid, Paul: *see* Paulus Diaconus.
Warnemünde, Ger. **11**-808 (D1); **17**-1018d.
Warner, Anna B. **28**-558d.
—, **CHARLES DUDLEY 28**-326c; **1**-841a.
—, H. H. **19**-960a.
—, John (bp.) **4**-634a.
—, John, and sons **3**-687c.
—, Mary Amelia **21**-363b.
—, **OLIN LEVI 28**-326d; **24**-516b.
—, P. F. **7**-442a; **7**-445d.
—, **SETH 28**-327a.
—, Susan **1**-836c.
—, Sir Thomas **18**-796a; **24**-21c.
—, Walter **1**-619c.
—, **WILLIAM 28**-327a; **11**-617a.
Warner, Cal. **5**-8 (E5).
—, Ill. **14**-304 (B2).
—, Minn. **18**-550 (B5).
—, N.H. **19**-490 (D5).
—, Okla. **20**-58 (F2).
—, S.Dak. **25**-506 (G2).
—, hill, Pa. **21**-106 (D4).
—, lake, Oreg. **20**-242 (F5); **20**-243b.
—, mt., Mass. **17**-852 (A2).
—, mt., Oreg. **20**-242 (F5).
—, mts., Cal. **5**-8 (C1).
Warner, riv., N.H. **19**-490 (D5).
Warner Creek, riv., Oreg. **20**-242 (E-F5).
Warner destructor **8**-106c.
Warnerius: *see* Irnerius.
Warnerke, Leon **21**-516d.
Warner nave **5**-406b.
— windmill **28**-710d.
Warness, Fall of: *see* Fall of Warness.
Warneton, Belg. **3**-668 (A2).
Warnford, Hants. **17**-598a.
Warnham, Sus. **9**-424 (IV. B4).
Warni, tribe **11**-830d; **11**-831c; **11**-832a; laws **11**-776b.
Warnicken, Ger. **11**-808 (H1).
Warning coloration **6**-732c.
Warning for Faire Women **17**-160c.
Warnow, riv., Ger. **11**-808 (D2).
Warns, Holl. **13**-588 (C2).
WARNSDORF, Aus. **28**-327b; **3**-4 (D1).
Warnstädt, Ger. **17**-17c.
War Office, London **16**-938 (F3 & E2); **2**-438d; **2**-614b; departments **25**-754d; functions **2**-610a.
Waronda, India **14**-382 (G-H10).
Waronge, Mal.Arch. **19**-487 (B1).
WARORA, India **28**-327b; **14**-382 (H9); colliery **5**-682b, **5**-837b.
Warp (geol.) **8**-580a.
— (rope-making) **23**-714d.
— (weaving) **28**-444d; **28**-447b; **26**-403b.
Warpath, riv., Can. **17**-584 (B1).
Warping (agri.) **25**-350d; **14**-845a; **22**-954d.
— (weaving) **28**-445a.
— (wood) **15**-478a.
— mill **7**-284a.
Warra, riv., Fr.Congo **11**-99 (C2).
—, riv., Mor. **18**-851 (E1).
Warracknabeal, Vict. **28**-38 (B2).
Warraday, N.S.W. **19**-538 (D-E3).
Warragan, N.S.W. **19**-538 (E2).
Warragul, Vict. **28**-38 (C3).
Warrak: *see* Abu Ishak Ibrahim.
Warrak el Arab, Egy. **4**-954 (B1).
— el Hadr, Egy. **4**-954 (B1).
— el Hadr, Gezira, isl., Egy. **4**-954 (B1).
Warramutty, N.S.W. **19**-538 (B2).
Warran, riv., Pal. **20**-602 (D4).
Warrandice **28**-329c.
WARRANT (law) **28**-327b; arrest by **2**-646d, **28**-761a; for attendance of accused **26**-81a; commitment **6**-776b.
— holders **28**-327d.
— **OF ATTORNEY 28**-328d; **28**-328c; **28**-760b.
— **OFFICER 28**-329a; **19**-300a; barrack accommodation **3**-428a.
WARRANTY (law) **28**-329a; **24**-64d; marine insurance **14**-677c; remedies for breach **24**-66a, **7**-781c.
—, covenant of **7**-339d.
— deed **7**-52d.
Warratah: *see* Waratah.
Warraws, tribe **12**-676d.
Warrego, riv., Queens. **2**-960 (H5); **19**-538 (C1); **22**-732b; **18**-618b.
Warren, Earls: *see* Warenne, Earls.
— (of Poynton) **28**-324d.
—, Gen Sir C. **3**-606c; **3**-607a; **5**-242c; cubit **28**-482b; Jerusalem explorations **24**-658a; national granaries **12**-340d; South African War **27**-205b.
—, F. **26**-630c.
—, **GOUVERNEUR KEMBLE 28**-329c; Gettysburg (1863) **11**-912b; Petersburg campaign **21**-302a; Weldon railway destruction **1**-824c; Wilderness Campaign **28**-634b.
—, James **28**-330c.
—, John **22**-719c.
—, **SIR JOHN BORLASE 28**-330a; American war (1812) **1**-847d; French revolutionary wars **11**-204d.
—, John Collins **1**-907d.
—, John Leicester: *see* De Tabley, J. B. Warren.
—, **JOSEPH 28**-330b.
—, Josiah **1**-915d; **16**-7a.
—, Lavinia **8**-740c.
WARREN, MERCY 28-330c.
—, **MINTON 28**-330d.
—, Sir Peter **27**-672b; **5**-225a.
—, Richard **28**-330d.
—, **SAMUEL 28**-330d.
—, Thomas **3**-986d.
—, **WILLIAM 28**-331b.
Warren, Ark. **2**-552 (C4).
—, Conn. **6**-952 (B3).
—, Ida. **14**-276 (B3).
—, Ill. **14**-304 (C1).
—, Ind. **14**-422 (G3).
—, Ky. **15**-740 (E4).
—, Mass. **17**-852 (C2); **28**-323c.
—, Md. **17**-828 (F1).
—, Me. **17**-439 (C4).
—, Mich. **18**-372 (G2).
—, Minn. **18**-550 (A2).
—, Mo. **18**-608 (E2).
—, N.H. **19**-490 (D4).
—, N.S.W. **19**-538 (D-E2).
—, N.Y.: *see* Haverstraw.
WARREN, O. **28**-331b; **20**-26 (I2).
—, Okla. **20**-58 (B3).
—, Oreg. **20**-242 (B-C2).
WARREN, Pa. **28**-331b; **21**-106 (D2).
—, R.I. **23**-249 (C-D2).
—, Tex. **26**-690 (N5).
—, Va. **28**-118 (D3).
—, Vt. **19**-490 (B3).
—, Wales **9**-428 (V. B4).
—, fort, Mass. **17**-852 (C4); **22**-515a.
—, lake, Can. **20**-113d.
—, pt., R.I. **23**-249 (D3).
—, riv., Minn. **27**-617d.
—, riv., R.I. **23**-249 (C2).
—, riv., W.Aus. **2**-960 (B6).
— Co., Ga. **11**-752 (D2).
— Co., Ia. **14**-732 (D3).
— Co., Ill. **14**-304 (B3).
— Co., Ind. **14**-422 (C4).
— Co., Ky. **15**-740 (B4); **15**-742d.
— Co., Miss. **18**-600 (B3).
— Co., Mo. **18**-608 (E3).
— Co., N.C. **19**-772 (D1).
— Co., N.J. **19**-502 (B2-C1).
— Co., N.Y. **19**-596 (F-G2).
— Co., O. **20**-26 (B6).
— Co., Pa. **21**-106 (C-D2).
— Co., Tenn. **26**-620 (F2).
— Co., Va. **28**-118 (D2).
WARREN 28-331d; **17**-111c; **10**-645a.
Warren Center, Pa. **21**-106 (K2).
Warren column **8**-319d.
Warrendale, Oreg. **20**-242 (C-D2).
Warrender, port, W.Aus. **2**-960 (D2).
Warren girder **4**-540a; **4**-555a.
Warren Hastings, isl., Mal. Arch.: *see* Marière.
Warrenheip, Vict. **28**-38 (E1).
—, mt., Vict. **28**-40b.
Warrenite secession **28**-331a.
Warrenne, earls of: *see* Warenne.
Warren Plains, N.C. **19**-772 (D1).
Warrenpoint, Ire. (Armagh) **2**-561c.
WARRENPOINT, Ire. (Down) **28**-331d; **14**-744 (E2).
Warren rotary furnace **20**-731b.
Warrens, Wis. **28**-740 (C4).
Warrensburg, Ill. **14**-304 (C4).
WARRENSBURG, Miss. **28**-331d.
—, Mo. **18**-608 (C3).
—, N.Y. **19**-596 (G2).
Warren Summit, N.H. **19**-490 (D4); **19**-495c.
Warrensville, O. **20**-26 (M-N5).
Warrenton, Ark. **2**-552 (D4).
—, Cape Col. **25**-466 (G7); **12**-606d.
—, Ga. **11**-752 (D2).
—, Mo. **18**-608 (E3).
—, N.C. **19**-772 (D-E1).
—, O. **20**-26 (I4).
—, Oreg. **20**-242 (A-B1).
—, Tex. **26**-690 (K-L5).
—, Va. **28**-118 (E2); **4**-792b.
Warrenville, Conn. **6**-952 (G2).
—, S.C. **25**-500 (C3).
War Revenue (U.S.) Act (1898) **26**-6b.
Warri: *see* White-lipped peccary.
Warriba, mt., Sud. **9**-130c.
Warrick, Mont. **14**-276 (E1).
— Co., Ind. **14**-422 (C8).
Warrigal: *see* Dingo.
Warrington, Butler of Bewsey, barons of **16**-141d.
—, Henry Booth, 1st earl of **7**-943b.
Warrington, Fla. **10**-540 (B6).
—, Ind. **14**-422 (F5).
WARRINGTON, Lancs. **28**-332a; **4**-584 (B4); **16**-139 (C3).
Warrington, Pa. **21**-106 (M5).
Warringtonite **4**-623b.
Warrior, coal fields, Ala. **3**-823d.
"Warrior" (warship) **24**-868c; **24**-892.
Warriors Mark, Pa. **21**-106 (F4).
WARRISTON, ARCHIBALD Johnston, lord **28**-332c; **7**-340a.
WARRNAMBOOL, Vict. **28**-333d; **28**-38 (B3); **28**-39a.
Warroad, Minn. **18**-550 (B2).
War Road, riv., Minn. **18**-550 (B2).
Warrous, people: *see* Warraws.
Warrumbungle, mts., N.S.W. **19**-538 (E2).
Wars (drug): *see* Kámalá.
War-Sangeli, tribe **25**-380b.
Warsaw, Ala. **1**-460 (A3).
—, Ia. **14**-732 (D4).
—, Ill. **14**-304 (A3).
WARSAW, Ind. **28**-335c; **14**-422 (F2).
—, Ky. **15**-740 (C-D2).
—, Mo. **18**-608 (C3); Mo. **18**-609b.
—, N.C. **19**-772 (D-E2).
—, N.Dak. **19**-780 (G1).
—, N.Y. **19**-596 (B3).
—, O. **20**-26 (F4).
WARSAW, Russ. **28**-334a; **21**-929 (C2); anti-Jewish riots (1881) **2**-139b; battle (1656) **5**-928a; climate statistics **23**-882a; fortress **23**-879c; massacres (1830) **21**-921d, (1861) **21**-922b; observatory **19**-959a; parliamentary franchise **23**-875a; siege (1794) **15**-915b; treaty (1745) **3**-42b; university **21**-929a, **21**-921d.
—, Va. **28**-118 (F3).
WARSAW, govt., Russ. **28**-334a; **21**-929 (B-C2).
—, grand-duchy, Russ. **21**-920c; **22**-171a; **9**-934a.
Warsaw beds **27**-627a.
Warsenis, mts., Alg. **1**-643 (B2); **1**-642d.
Warsheik, Somlnd. **25**-379 (D-E6); **25**-383c.
Warship **24**-891d; **19**-315b; **24**-979d; armament **20**-230d; armour **24**-971d, **2**-578c; bilge keels **24**-938c; crew **19**-300b; 18th century **24**-867a; first use **7**-453c; Greek, ancient **24**-863d; medieval **24**-865c; liquid fuel **11**-279b; propulsion **24**-949a; Roman, ancient **24**-864a; rudders **24**-956a (figs.); steering gear **24**-981a (fig.); tonnage **27**-10b; turbines **25**-824a, **25**-848d.
Warsia, Mal.Penin. **19**-487 (A-B1); **19**-488d.
Wars of the Roses: *see* Roses, Wars of the.
Wars of Yahweh, The Book of **19**-863c; **3**-850d.
Warsop, Notts. **9**-416 (II. E3); **19**-827d.
"Warspite" (ship) **24**-909b.
Warstein, Ger. **11**-808 (B3).
Warszawa, Russ.: *see* Warsaw.
WART 28-335d; **27**-983c.
Warta, riv., Ger. and Russ.: *see* Warthe.
War Tax (20th cent.) **14**-356b.
Wartburg, Ill. **14**-304 (B5).
—, Tenn. **26**-620 (G1).
WARTBURG, castle, Ger. **28**-336b; **24**-395a; festival (1818) **5**-940b; **11**-864c.
Wartburgberg, mt., Ger. **24**-262a.
Warted gourd **12**-287b.
Wartenberg, Ger. **3**-788 (map); battle (1813) **28**-923d.
—, Gross, Ger.: *see* Gross Wartenberg.
Wartenburg, H. von **7**-680c.
— und Penzlin, H. von Maltzan, baron of: *see* Maltzan.
Wartenstein, ruins, Switz. **26**-242 (G2).
Warth, Aus. **26**-242 (I2).
Wartha, pass, Ger. **19**-350d.
WARTHE, riv., Russ. and Ger. **28**-336c; **11**-808 (F2); **21**-929 (A-B2); **21**-930b.
Warthen, Ga. **11**-752 (D3).
WART-HOG 28-336c; **26**-237b; **15**-93d.
WARTON, JOSEPH 28-336d; **9**-634b.
—, **THOMAS** (1688-1745) **28**-337a.
—, **THOMAS** (1728-1790) **28**-337b; **9**-634b; **14**-191c.
Warton, Lancs. **16**-139 (B2); **16**-143b.
—, Northumb. **9**-412 (I. D2).

Wartrace, Ill. **14**-304 (D6).
—, Tenn. **26**-620 (E2).
Warty pig **26**-237a ; **15**-286b.
Waru, Mal.Arch. **17**-466 (G3).
—, bay, Mal.Arch. **17**-466 (G3) ; **5**-702d.
—, dist., Mal.Arch. **5**-702d.
Warua, tribe **1**-330a.
Waruanda, tribe **1**-329c.
Waruka, N.G. **19**-487 (C3).
Warundi, Bantu tribe **1**-330b ; **11**-773a.
—, Hamite tribe **1**-329c.
Warungu, tribe **1**-330c.
Warville, J. P. Brissot de : *see* Brissot, J. P.
WARWICK, earls of **28**-337d.
—, Alice, countess of **28**-343b.
—, Anne Beauchamp, countess of **3**-585a.
—, Anne Neville, countess of **28**-339c.
—, Cicely Beauchamp, duchess of **28**-820d.
—, Edward, earl of : *see* Edward.
—, Edward Rich, earl of **18**-650d.
—, Frances Evelyn Greville, countess of **28**-338d ; **28**-342d.
—, Francis Greville, earl of **4**-644a.
—, Guy de Beauchamp, earl of **28**-338a ; **3**-584d ; **9**-499b ; library of **16**-551a.
—, Henry Beauchamp, duke of **3**-585a.
—, Henry de Newburgh, earl of **28**-337d ; **9**-478a ; **12**-300a.
—, Isabel Beauchamp, countess of **28**-339a ; **3**-585a.
—, John Dudley, earl of : *see* Northumberland.
—, **SIR PHILIP 28**-338d.
—, **RICHARD BEAUCHAMP**, earl of **28**-339a ; **3**-585a ; **1**-492d ; arms of **13**-314c ; Berkeley castle seized **3**-778b ; tomb **24**-494c, **28**-341a, **9**-10c.
—, **RICHARD NEVILLE**, earl of **28**-339c ; **9**-517c ; arms **13**-314c, **13**-315b.
—, Robert Rich, 1st earl of **23**-293c ; **23**-292c.
—, **SIR ROBERT RICH**, 2nd earl of **28**-340c ; **12**-404b ; piracy **21**-640c.
—, Thomas Beauchamp, 11th earl of **3**-584d.
—, Thomas Beauchamp, 12th earl of **28**-338b ; **3**-584d ; **9**-509b ; brass of **4**-435 (Pl. II. fig. 1).
Warwick, Cumb. **9**-412 (I. C3).
—, Ga. **11**-752 (C4).
—, Mass. **17**-852 (C1).
—, Md. **17**-828 (H2).
—, N.Dak. **19**-780 (F2).
—, N.Y. **19**-596 (F4) ; **19**-598a.
—, O. **20**-26 (G3).
—, Okla. **20**-58 (D-E2).
—, Pa. **21**-106 (I6).
WARWICK, Queens. **28**-340d ; **2**-960 (I5).
WARWICK, R.I. **28**-341c ; **23**-249 (C2).
WARWICK, Warwick. **28**-340d ; **9**-420 (III. D2) ; castle **4**-643d ; fire **10**-401c ; geology **28**-342a, **9**-413b.
— and Birmingham, canal, Warwick. **28**-342c.
— and Napton, canal, Warwick. **28**-342c.
Warwick Co., Va. **28**-118 (F3).
— Creek, riv., N.C. **19**-772 (F1).
— Neck, R.I. **28**-341c.
WARWICKSHIRE, co., Eng. **28**-341d ; **9**-420 (III. D2) ; **25**-758 (B2) ; coal **27**-600b, **9**-425d ; sugar beets **26**-41c.
— County Cricket Club **7**-443b ; **3**-984c.
— Field Club **4**-626a.
Warwick Trading Co. *v.* Urban **27**-130b.
Warwolf : *see* Werwolf.
Warzazet, riv., Mor. : *see* Molah, el.
Was, tribe : *see* Wa.
Wasagara, tribe **1**-328c ; **1**-330c.
Wasambara, tribe **1**-328c ; **1**-330c ; **11**-773a.
Wasanga, tribe **1**-330c.
Wasaramo, tribe **1**-328c ; **1**-330c ; **8**-389b.
Wasatch, Utah **27**-814 (C1).
—, mts., Utah **27**-621a ; **27**-813d.
— Co., Utah **27**-814 (C-D2).
Wasatch group **9**-663b ; **11**-670b ; **27**-629b ; fauna **28**-1012c.
Wasaw, dist., Go.Cst. **12**-203 (A-B4) ; **12**-203c.
Wasco, Cal. **5**-8 (D4).
—, Ill. **14**-304 (D2).
—, Oreg. **20**-242 (E2).
— Co., Oreg. **20**-242 (D2).
Wascones (Vascons), tribe **11**-494d ; **19**-282b ; Roncesvalles battle **10**-809d ; **5**-892a.
Wasconia, prov., Fr. : *see* Gascony.
Wasdale, Cumb. **9**-412 (I. B4).
— Head, Cumb. **9**-412 (I. B4) ; **16**-91a.
Wase, Christopher **12**-381c ; **9**-286d.
Wase, Nig. **19**-678 (D-E3) ; **19**-35b.
Waseca, Minn. **18**-550 (D6).
— Co., Minn. **18**-550 (D6).
Waseda, university, Jap. **15**-171a.
Wase goose : *see* Wayzgoose.
Waseguha, tribe **1**-328c ; **1**-330c.
Wasen, Switz. **26**-242 (D2).
Wasenhorn, mt., Alps **1**-744c.
Wasepi, Mich. **18**-372 (E8).
Wasf **5**-216c.
Wasgau, mts., Eur. : *see* Vosges.
WASH (THE), bay, Eng. **28**-343d ; **9**-416 (II. H3-4) ; **4**-584 (D5-4) ; **9**-414b ; drainage **10**-258c ; fisheries **19**-94c, **27**-222b.
—, riv., Eng. : *see* Gwash.
Wash (distilling) **25**-700a.
Washabaugh Co., S.Dak. **25**-506 (D4).
Washago,riv.,Aby.**25**-379 (C5).
Washak, Bal. **14**-376 (A6).
Wa-shan, mt., China **6**-168 (G4).
Washashi, tribe **1**-330b.
Washaway, Corn. **10**-605d.
Washbourn (physician) **20**-771c ; **20**-778b.
WASHBURN, CADWALLADER C. 28-344a ; **19**-959d.
—, Ichabod **27**-49a.
—, Israel **28**-344a ; **17**-440d.
Washburn, Ark. **2**-552 (B2).
—, Ill. **14**-304 (C3).
—, Me. **17**-434 (D2).
—, Mo. **18**-608 (C5).
—, N.Dak. **19**-780 (C-D2).
WASHBURN, Wis. **28**-344a ; **28**-740 (B-C2).
—, mts., Wyo. **28**-912c.
—, observatory, Wis. **19**-959d ; **6**-304c.
—, riv., Yorks. **9**-416 (II. D1).
— Co., Wis. **28**-740 (B3).
WASHBURNE, ELIHU BENjamin 28-344b.
Washdown closet **24**-738c.
Washdyke, N.Z. **19**-624 (C6).
Washford Pyne, Dev. **9**-430 (VI. E2).
Wash-gilding : *see* Fire-gilding.
Washi, lake, Can. **20**-114 (C1).
Washimeska, riv., Can. **22**-724 (B2).
Washingborough, Lincs. **9**-416 (II. G3).
Washing machine (flour milling) **10**-551a.
— machine (laundry) **16**-282a.
Washing of feet (ceremony) **17**-904d.
— roller (rubber) **23**-802c.
— soda **25**-342b.
WASHINGTON, BOOKER Taliaferro 28-344c.
—, **BUSHROD 28**-344d.
—, **GEORGE 28**-344d ; **27**-689b ; **1**-842c ; *Addresses* **1**-833a ; André's execution **1**-969a ; Brandywine battle **4**-430a ; cheer **6**-22b ; Fort Duquesne expedition **5**-158a ; Long Island battle (1776) **16**-984d ; Monmouth battle (1778) **18**-727d ; statue (J. Q. A. Ward) **24**-507 (Pl. VI.).
—, Col. William **1**-844c ; **9**-957d.
Washington, Ariz. **2**-544 (C4).
—, Ark. **2**-552 (B4).
—, Cal. **5**-8 (C2).
—, Conn. **6**-952 (B3).
WASHINGTON, D.C. **28**-349a ; **17**-828 (D4) ; aqueduct bridge **4**-542c ; army medical school **20**-22c ; bureau of American Republics **27**-137b ; cathedral **4**-110d ; children's courts **6**-140c ; drunkenness **26**-586c ; fire (1851) **10**-402d ; library of Congress **16**-562c, **4**-221d ; liquor licensing **16**-766c ; National Museum : *see* National Museum, Washington, U.S. ; newspapers **19**-568d ; observatories **19**-960a, **26**-567a ; peace congress (1861) **27**-706a ; (1889) **21**-7c ; public buildings burnt **1**-849b ; Roman Catholic University, *see* Catholic University of America ; Supreme Court sessions **7**-323c ; zoological park **28**-1019a.
Washington, Ga. **11**-752 (D2).
—, Ia. **14**-732 (F3).
—, Ill. (McDonough Co.) : *see* Macomb.
—, Ill. **14**-304 (C3) ; **14**-306a.
WASHINGTON, Ind. **28**-352d ; **14**-422 (C7).
—, Kan. **15**-654 (E1).
—, Ky. **15**-740 (E2).
—, La. **17**-54 (B3).
—, Mass. **17**-852 (A2).
—, Me. **17**-434 (C4).
—, Mich. **18**-372 (G2).
—, Miss. **18**-600 (A4).
—, Mo. **18**-608 (E3).
—, N.C. **19**-772 (E-F2).
—, N.H. **19**-490 (C5).
—, N.J. **19**-502 (A3).
—, N.J. **19**-502 (B2).
WASHINGTON, O. (Fayette) **28**-352d ; **20**-26 (D5-6).
—, O. (Guernsey) **20**-26 (H4) ; **28**-353a.
—, O. (Miami) : *see* Piqua.
WASHINGTON, Pa. **28**-353a ; **21**-106 (B5) ; **21**-680b.
—, R.I. **23**-249 (B2).
—, Tex. **26**-690 (L5).
—, Utah **27**-814 (A5).
—, Va. **28**-118 (D2).
—, Vt. **19**-490 (C3).
—, bay, Kor. **15**-156 (D9).
—, cape, Green. **12**-543 (F1) ; **12**-542d.
—, college, Conn. : *see* Trinity College, Hartford.
—, dist., La. **17**-54 (D-E3).
—, fort, N.Y. **27**-252d.
—, isl., Pac.O. : *see* Huahuna.
—, isl., Wis. **28**-740 (F3) ; **28**-740c.
—, isls., Pac.O. (America Is.) **20**-436 (K4) ; **4**-609b.
—, isls., Pac.O. (Marquesas) **20**-436 (L5) ; **17**-750d.
—, lake, Fla. **10**-540 (F3).
—, lake, Me. **17**-434 (C4).
—, lake, Minn. **17**-586c.
—, lake, Wash. **24**-563a.
—, mt., Fiji : *see* Mbuke Levu.
—, mt., N.H. **19**-490 (E3) ; **28**-607a ; **19**-490d ; fauna **27**-633c ; railway **22**-836a.
—, mt., Oreg. **20**-242 (D3).
—, park, Ill. **6**-120c.
—, park, N.Y. **1**-490b.
—, park, Wash. **28**-354 (D3).
—, park, N.Y. **1**-490b.
WASHINGTON, state, U.S. **28**-353c ; **28**-354 (map) ; agriculture **28**-354d, **13**-679b ; coal **27**-642a ; constitution and government **28**-355d, **20**-980b, **16**-211c ; geology **27**-629a, **9**-663b, **27**-632a ; irrigation **14**-852c ; lumber trade **10**-659c ; newspapers **19**-572d.
—, university, St Louis **24**-25b.
" Washington " (cruiser) **24**-911c.
— and Jefferson, college, Pa. (Washington Academy) **28**-353a.
— and Lee, university, Va. **16**-527d ; **8**-984d.
— and Tusculum, college, Tenn. : *see* Greenville.
— Base-ball Club **3**-458d.
— Boro, Pa. **21**-106 (K5-6).
— Co., Ala. **1**-460 (A4).
— Co., Ark. **2**-552 (A2).
— Co , Colo. **6**-722 (G2).
— Co., Fla. **10**-540 (C6).
— Co., Ga. **11**-752 (D3).
— Co., Ia. **14**-732 (F3).
— Co., Ida. **14**-276 (A3) ; **14**-276c ; **14**-277b.
— Co., Ill. **14**-304 (C5).
— Co., Ind. **14**-422 (E7).
— Co., Kan. **15**-654 (E-F1).
— Co., Ky. **15**-740 (C3).
— Co., Md. **17**-828 (C-D1).
— Co., Me. **17**-434 (E3).
— Co., Minn. **18**-550 (E6-5).
— Co., Miss. **18**-600 (B2).
— Co., Mo. **18**-608 (F4).
— Co., N.C. **19**-772 (F2).
— Co., Neb. **19**-324 (H3).
— Co., N.Y. **19**-596 (G2).
— Co., O. **20**-26 (G-H6).
— Co., Okla. **20**-58 (F1).
— Co., Oreg. **20**-242 (B2).
— Co., Pa. **21**-106 (B5).
— Co., R.I. **23**-249 (B3).
— Co., S.Dak. **25**-506 (C4).
— Co., Tenn. **26**-620 (I1).
— Co., Tex. **26**-690 (L5).
— Co., Utah. **27**-814 (A5).
— Co., Va. **28**-118 (B-C1).
— Co., Vt. **19**-490 (B-C3).
— Co., Wis. **28**-740 (E5).
Washington College, Tenn. **26**-620 (I1).
— Court-house, Ark. : *see* Fayetteville.
— Court-house, O. : *see* Washington.
— forest-reserve **5**-444b.
— gneiss **27**-630c.
— Grove, Md. **17**-828 (E2).
— Gulch, Mont. **14**-276 (C2).
— Harbor, Wis. **28**-740 (F3).
Washingtonia (conifer) : *see* Big-tree.
— (palm) **21**-781a.
Washingtonian Movement **26**-579d.
Washingtonite **14**-327d.
Washington Land, dist., Green. **12**-543 (C1).
Washington navel (orange) **5**-12d.
— palm : *see* Fan palm.
Washington Post (dance) **7**-800a.
Washington Post (newspaper) **19**-568d.
Washington Station, Conn. **6**-952 (B3).
—, Treaty of (1871) **5**-164a ; **5**-161b.
— Treaty (1887) : *see* Chamberlain-Bayard Treaty.
Washingtonville, N.Y. **19**-596 (B4).
—, O. **20**-26 (I3).
—, Pa. **21**-106 (I3).
Washir, Afg. **14**-376 (A3).
Washita, Ark. **2**-552 (B3).
—, mts., Ark. : *see* Ouachita.
—, riv., Ark. and La. : *see* Ouachita.
—, riv., Okla. **20**-58 (D-E3) ; **7**-668b ; **20**-58a.
— Co., Okla. **20**-58 (B-C2).
— group **7**-417b ; **7**-417a.
— stone **13**-653a.
Washmagir, Abu Mansur **21**-225b.
Washoan, tribe **1**-811d ; **14**-456a.
Washoe, Nev. **5**-8 (D2).
—, mts., Nev. **5**-8 (D2) ; **19**-451b.
— Co., Nev. **5**-8 (D2-1).
— silver process **25**-114a.
Washougal, Wash. **28**-354(C4).
Washout closet **24**-738d.
Washow, bay, Can. **17**-584 (C2).
Washraf, Arab. **26**-305 (E-F4).
WASHSTAND 28-358c.
Washta, Ia. **14**-732 (B2).
Washtenaw Co., Mich. **18**-372 (G7).
Washtucna, Wash. **28**-354 (G3).
Washu, prov., Jap. : *see* Yamato.
Washunga, Okla. **20**-58 (E1).
Wasi (Mahommedan law) **14**-444c.
Wasiba, people, Af. **1**-330a.
Wasif (soldier) **5**-47c ; **5**-49b.
— (writer) **27**-467a.
Wasigororo, mts., N.G. **19**-487b.
Wasil b. Ata (theologian) **17**-424b ; **17**-421d ; **13**-49c.
Wasilewski, Edmund **21**-928b.
Wasilites (sect) **17**-424b.
Wasinja, people **1**-330b.
Wasioja, Cal. **5**-8 (D4).
—, Minn. **18**-550 (E6).
Wasioto, Ky. **15**-740 (E4).
Wasit, Turk.As. **26**-305 (G4) ; **3**-195b ; **5**-32d ; Abbasid conquest (750) **5**-40c ; Tahir captures (812) **5**-46a ; Yazid b. Mohallab captures (720-4) **5**-35d.
Waskaiowaku, lake, Can. **5**-160 (K4).
Waskom, Tex. **26**-690 (N3).
Wasmann, E. **14**-649a ; **2**-87b ; **2**-88a.
Wasmes, Belg. **3**-668 (C3).
WASP (Vespoidea) **28**-358d ; **14**-180b ; olfactory organs **13**-421d ; Peckham's observations **14**-649c.
—, common **28**-359b ; flight **10**-507a.
Wasps (Aristophanes) **2**-500a.
Wassa, Fr.W.Af. **11**-204 (G4).
WASSAIL 28-361a.
Wassaw, people **1**-329d.
Wassen, Switz. **26**-242 (F3) ; **24**-7a.
Wassenaar, Holl. **13**-588 (B2) ; **25**-513c.
Wassenaar Twickels, Unico, count of **12**-818b.
Wassenaer, Opdam van, baron (admiral) : *see* Obdam, Jacob.
Wasserbillig, Luxem. **18**-894d.
Wasserbok ; *see* Waterbuck.
Wasserburg, Ger. **11**-808 (D4).
Wasserkies (min.) **17**-683c.
Wasserkuppe, mt., Ger. **13**-413a.
Wassermann, August (physician) **23**-237b ; **20**-788b ; **3**-177c.
—, J. (author) **11**-798c.
Wasserstadt, dist., Hung. : *see* Vizivároš.
Wassewa, Can. **17**-584 (A3).
Wassigny, Fr. **10**-778 (F2).
Wassilo, Andrew (bishop) **28**-766a.
Wassmannsdorf, Ger. **3**-788 (map).
Wassutagnook, stream, Me. **17**-434 (D3).
Wassy, Fr. **10**-778 (G3) ; massacre (1562) **10**-829c, **13**-865d.
Wasta, El. Egy. **9**-40 (B2).
Wa States, Bur. **4**-840 (F3).
WASTE (law) **28**-361b ; **16**-157c ; of assets **28**-361d.
— (mine) : *see* Goaf.
— cloth **7**-279a.
Wastein, Swed. : *see* Vastein.
Waste lands **1**-700b : *see also* Commons.
Wasteneys Smith's stockless anchor **1**-949a.
Waster (fencing) : *see* Single-stick.
Waste wax : *see* Cire perdue.
— weir **5**-169c.
Wast Water, lake, Cumb. **9**-412 (I. B4) ; **16**-89c ; **16**-91a.
Wasukuma, tribe **1**-328c ; **1**-330b.
Wasumbwa, people **1**-330b.
Wasungen, Ger. **11**-808 (III. o11).
Wa-Swahili : *see* Swahili.
Waswanipi, lake, Can. **22**-724 (A2).
—, riv., Can. **22**-724 (A-B2).
Wataga, Ill. **14**-304 (B2).
Wataita, tribe **1**-328c ; **1**-330b.
Watahula, Ark. **2**-552 (B2).
Watanabe Seitei (artist) **15**-176d.
Watanable, Shiko (artist) **15**-913b.
Watasé (biologist) **7**-715d ; **2**-291d.
Watatic, mt., Mass. **17**-852 (D1).
Watauga, Tenn. **26**-620 (I1).
— Association **26**-623c.
— Co., N.C. **19**-772 (A1) ; **27**-681c.
— Valley, Tenn. **26**-620 (I1).
Watch, Ala. **1**-460 (B2).
Watch (division of time) **28**-362b.
WATCH (timepiece) **28**-362b ; **17**-88d ; **19**-291c.
" Watch and Ward " statute (1285) **21**-978b ; **9**-495a.
Watchaug, pond, R.I. **23**-249 (B3).
Watch bill (ship) **28**-362b.
Watchem, Vict. **28**-38 (B2).
Watchet, Som. **9**-430 (VI. E2) ; **25**-389b.
Watch Hill, R.I. **23**-249 (A3) ; **28**-539a.
Watching (burial) : *see* Waking.
Watchingwell, I. of W. **28**-627d.
Watchman **28**-246d.
Watchman's clock **6**-548c.
Watch Tower, mt., Ida. and Mont. **14**-276 (B3).
Watchung, mts., N.J. : *see* First Watchung *and* Second Watchung.
Watcombe, Dev. **27**-58b ; **8**-132d.
Watellen, mt., Sah. **23**-1004b.
Watendlath, Cumb. **9**-412 (I. B3).
— beck, riv., Cumb. **8**-77d.
Water, Lancs. **16**-139 (E2).
WATER 28-366b ; **16**-296a ; **5**-580d ; **27**-848d ; boiling point **25**-941c ; in coal **6**-577a ; dowser **8**-333c ; density **14**-36a, **28**-478b ; distillation **8**-321c ; electrical conductivity **9**-218c ; electrolysis **9**-217b ; elemental view **9**-253c ; freezing point **25**-941c, **14**-227a ; friction coefficient **14**-57d ; geological action **11**-660b ; hardness **28**-366d, **4**-971d, **4**-148c ; magmatic **18**-505c ; magnetic susceptibility **17**-348c ; metals, reactions with **18**-201b ; meteoric **18**-505b ; in minerals **18**-512d ; in plants **21**-747a ; in soil **25**-348a ; specific heat **5**-62a ; therapeutic action **21**-350d, **18**-517c ; thermal conductivity **6**-896d ; velocity measurement **14**-79d.
— (rel.) **13**-623b ; ablution **1**-65d ; baptism **3**-365b ; blessing **9**-696a ; consecration **23**-

For Key to Contractions, etc., see Page 1.

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R 6128 '.'6, 'G2'\C' 21'C2'1C' %'&a=4?@' R6&-2 83'@'W-7'8-1'\b CC$'
%'&a$5 R 80(9 'C6JEP\'a$$'DF6. <(1'0' (8I'8<'< 21' R 7'8I') W29'&'aa'DG. R6&-2 83'@'W-7'8-1'\b CC$'
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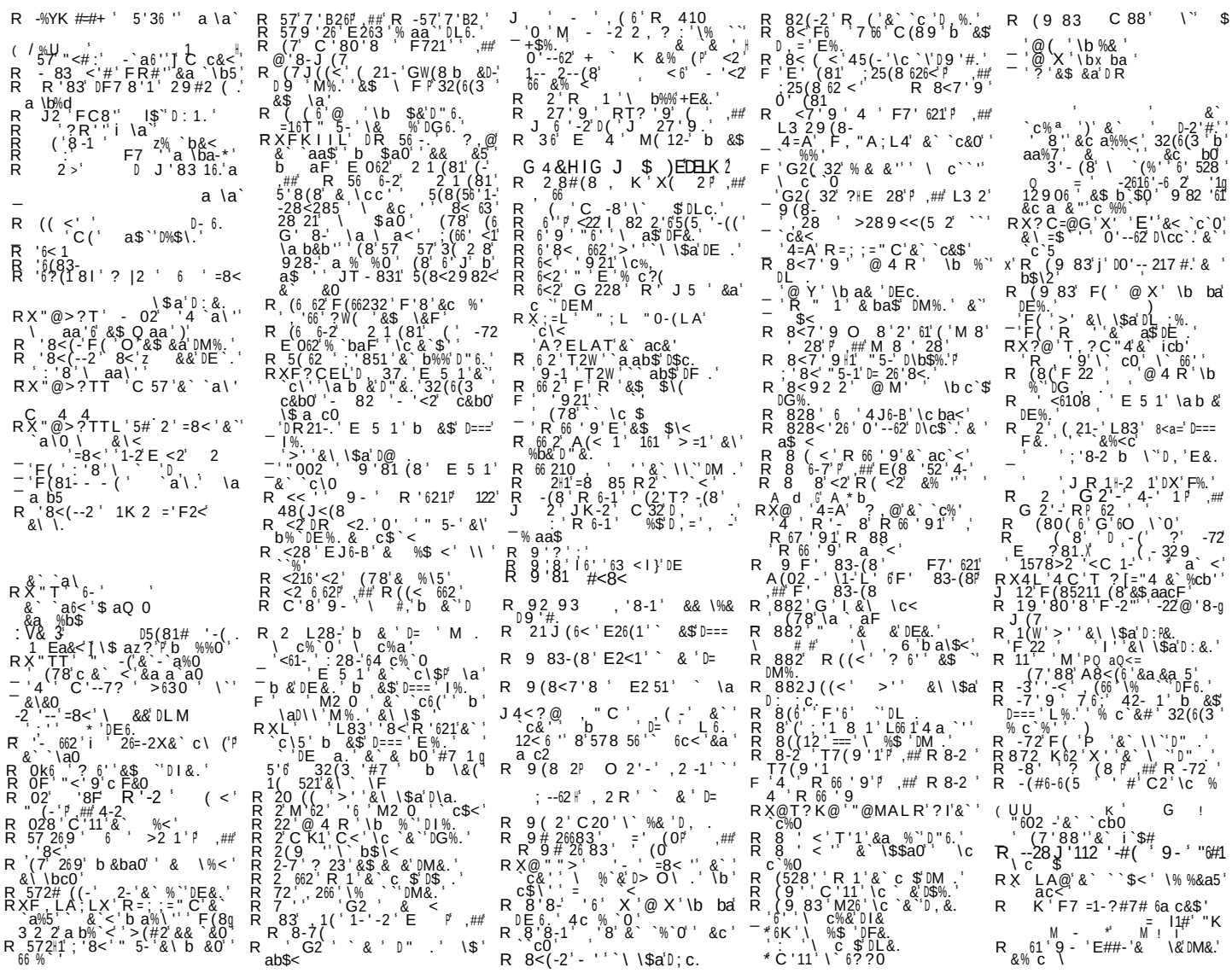

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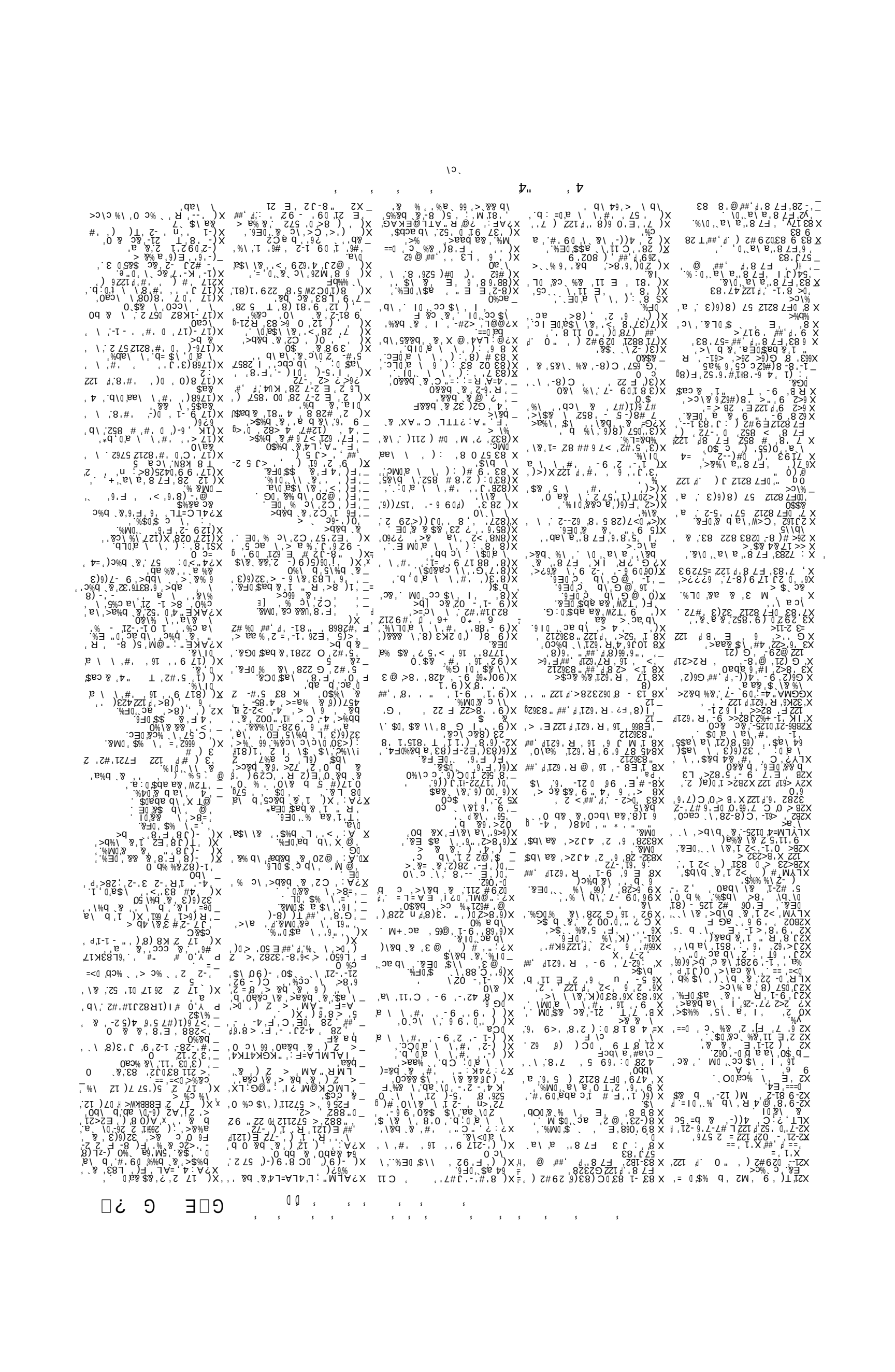

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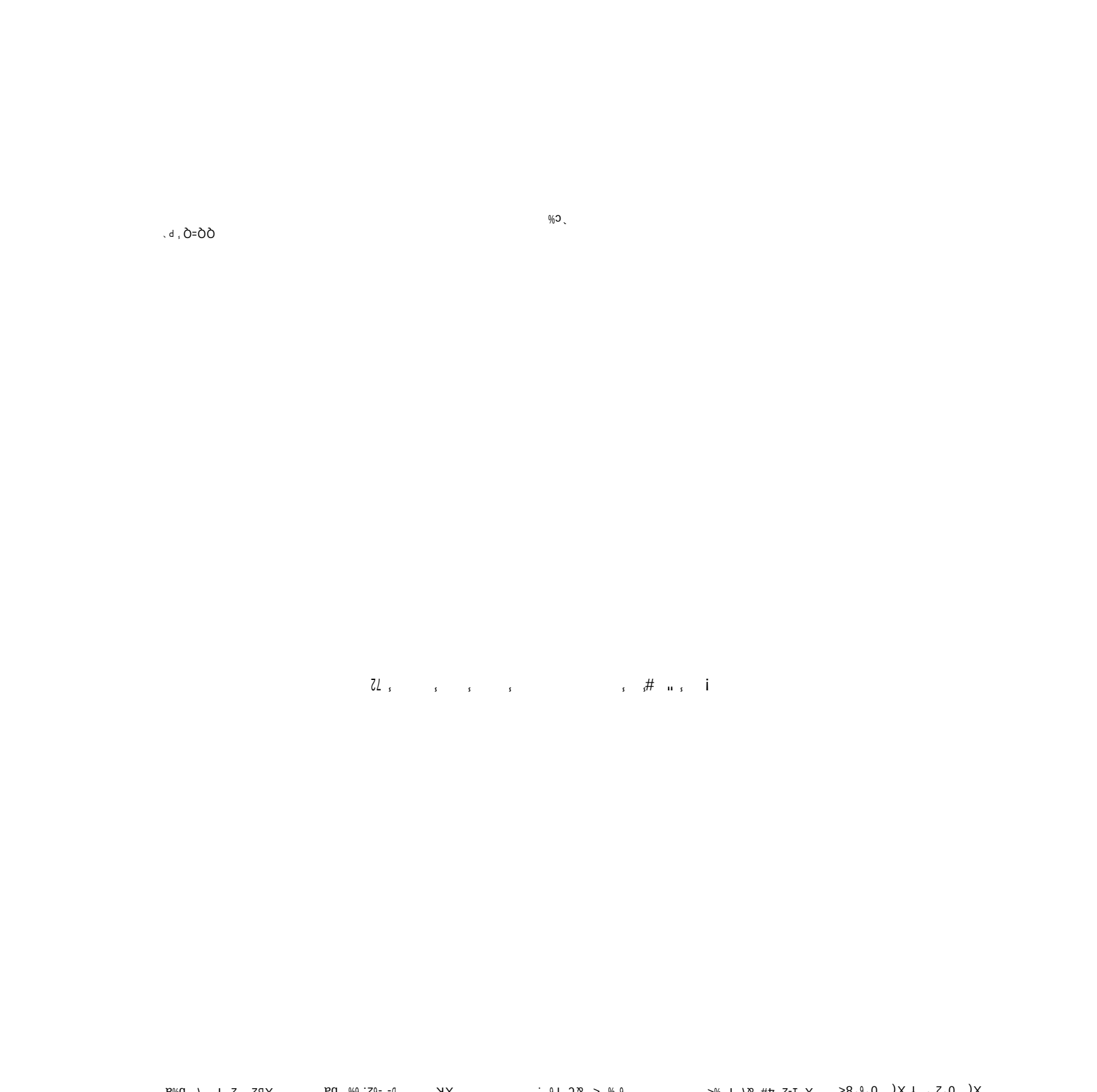

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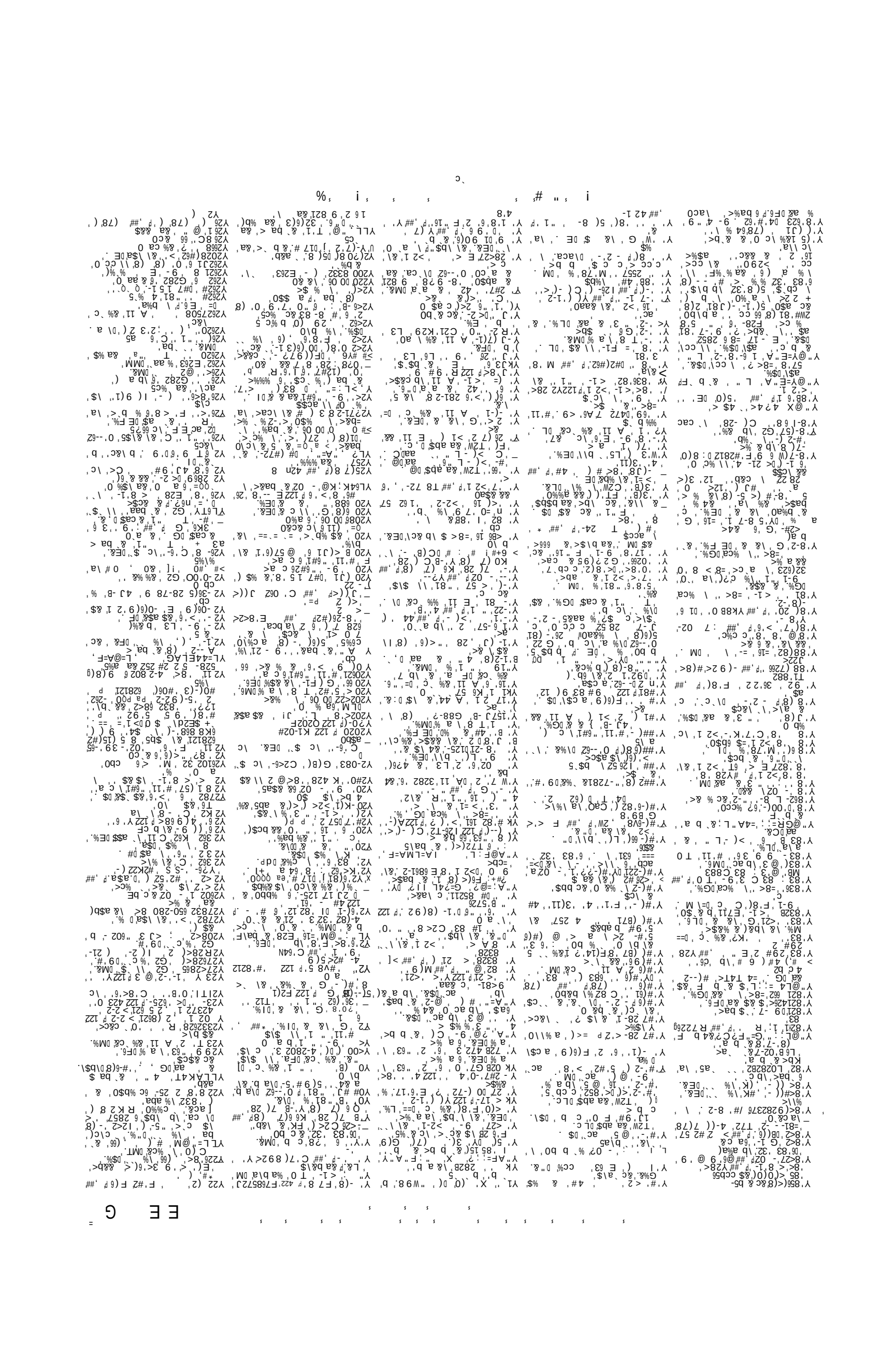

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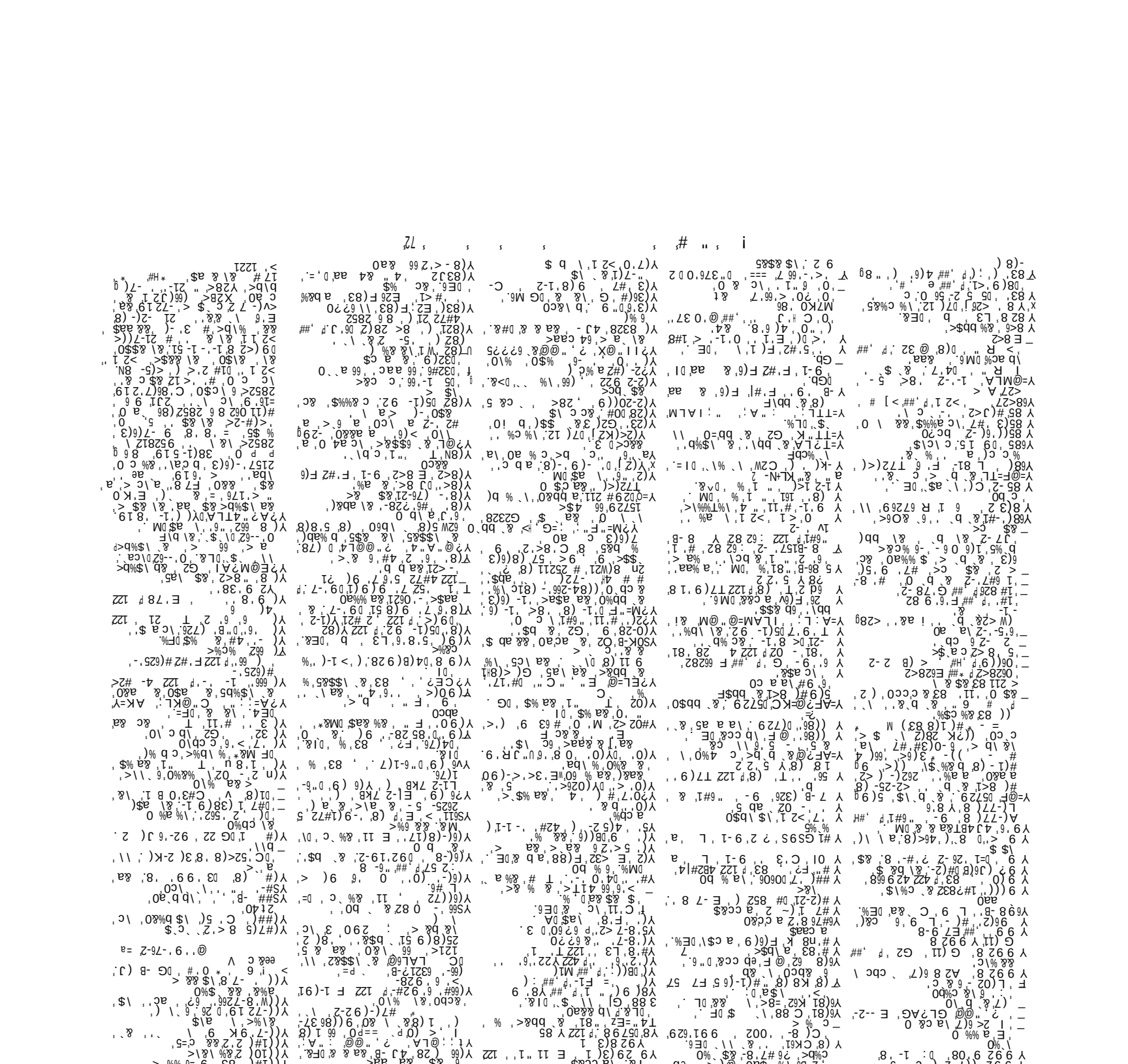

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F(9'85721
F(821-(3'
F(8 0(1
F(#-1
F N2
F 22'=8<'81'
F (J'=8<'81'
F 8'1'
F 2-K1'
FB257'
M'J'6('M'~6
M26'J'2'=8<'81
M 8 '
M(3 '
M' <'8

E '66'
M M
'8
-(' 1'('M' ' 1

E1 8(
L J2
I'6'17'1
I'83
I'8-
I266'7
I
I 83('('I283K
I-((3 '8
I6'-72'<1
I(W'=8<'81
I 6'
I 8
I ((B
F'657'1
G'66'1
?'' 17
?7 6B'
G6 ' 1
G#1 21
G(6<1
?(8'3 '1
G (1' 28- 21
G '85721
G ' '8 1
G '-(1
G '- 1(1
G~' (9 91
G 9 1
,'0'01
,'<28<('
E'6<'
,' '1
E'9 -5',521
E' '-8

' 1''
'J'J
,'B' ''
E2 2 ('('? '72 2 ('
E 8< 6'
E6# 9 '1'
36 8

,(--28-(-1
,0 '
, '901'1
, '1-25'
, 657(6
, (8
=8< '81@(-7"92 5'8
=n -(1
=(n ('1
=T 6'1
=-B'
''68
' 81
<-1

A F21''8<'T 021'd5 ; !E

2 2 (1
0 -(1
65' 66'
'831
'DM
1
E'00'0 10
:'0 621
:'-' 1
L' '
E'6'# '
:'6 1#26
E'6 '1
:'8' '
:'8 'DE2 02 .
:' ' :'6#' 1
:' 28
:'17 044
:' <(
:'J'D:'81'.
:' '1-7
:7'9-1
L '--'2
:7'B' 1
:72 1<4
:7(8<1
:65 '#((
: (J'1
: 37 B
:6'9'-7
:(57
:(61
:(6'
:(1
:(-
:(-21
: 9827
: 0 1
: 9 A4
: 80 1
: 980'1
:'1'8
: -28'
:J'K -6
:'(1
:'15'
:'- '
:23'1
M2#57'
:#'8
:(6(1
C'<6
C'7'
C'7'--'u
C' '6' V
C' ' '
C'6' 1
C'8<'8
C'8<683?
C'82-282 1
C'8302--
C'86-5
C'8 20'
C' (
C' '8'1
C' #(1'8
C' ((81
C' -
C'1'
C'17(8'
C'-'052
C' '

C' (87
C28'83 77(1
C281''7<C' 2'
C217572 ' 1
C2 '7
C' 9
C6'(-1B2
C 59'5
C 1
C617 96D- 02.
C (<(5'
C(7'RZ'
C(7'J '
C(7 5'8'
C(79'8<'
C(8'116'
C(8-'3#'61'
C((1'
C(#6'7'
C(< 8'81'
C(W(1
C#(83RZ'D>(83(1.'
C 9<'2
C88< 2 1'
C 1'
C 1''6 26'
C81 7(32'8'4-(5 '
CB'O6-21'('E28 CB'0'
@'7 '-6'K'4-(5 '
@'9'1<<''
@'8<
@' '0?'#'@', ' ('
@' ' ('@'
@23 -(1'
@23 ('
@2B'>2(N1'
@ '9 @''9'
@ 2'
O2 '861'
? 0J''
?9'3 '1'
?8'0'1'
?82<''
?8(8<V3''
?#'-''
? ' B''
? '(81'
?1-' #'
?--'J''
>'# '81'
>' '7'05'1-2.
>' 1251
>'-7'8'D#2(#62.
>'J822'
>28(0152-'
>2n (-'
>2-2728
>9''
>(6'01'
>(85''
>(8<('
>(-'J'-'# 6'
>(8<'0'
>'07-'05'1-2.
> 206('=8<'8E'
> 26572'
>39
O 627N'('':657N1'
O 57 ''
: -'
E '81

: -72 '81
4'0(1
4' '
4'K17'8
4'9(2<21
4' -'61
429'83
429 8(62
42825'
42 2 1
47 4 '
40' L<C
40'81
47'J822
472 '8'('47 '86
47 66 7
47 66
4768J', 'D- 02.
47 ,
4 282-?
4 7
4 (W
46' 1
46(' 1
46(2821
4(837(
4(01
4# 'D((9 9 82.
4J'7 6
4 286'84
T'
T'6'7 3
T'9 61
T' '8=
T'-' 1
T27 26(02' F7 26(72' +R
E 6K(72
T29 7 '
T 07 '('T20 '
T(<'1'
T(6-2(1'
T (36(<-21'
T27 'T(7J 'F7'('?6
T ' 23'('T'J' 2 '
T 6('DT 5 62 1.'
T 83 121'
T #1'
T 6'
T
T (9'8'
T 1
T 15' ('
K 30
= 8 '9 J2B6
=T1-' ' '
K-2'DK-'7.
K-9'8' 726
''6#281
2<<'71
((<(((' ' <(W'
R'
R 57 -'
R ((7 '
R (6('DR?6(' (6(.'
R '8<(-'D, (8.
X'(1
X 1' B'
Y'69 8 7-
Y'#' (1
Y2 '3'
Y28'-''H

E (3 '#7 21

D422''61('a :6

" 20 '\1-'0'(8'
E'8<262''"<(6#7'I" '
E'1-'n'"<(6'
E '112 '<2'E(0(3'
F7'621'L-2882'
E 8-2-'M'8 26G' 1(8'
E (5''>' 6'
F'-68'hb "#
F7 1- ', 28

M'J #1'R 66'9'E(<'
M28 2 ' (12#7'
I62-572 '"652'F
, '62', ('-('
, (<31(8'E '8', (37'
-(8
.' -2-'L<(' <'
C#;28 '<' (78' I2g
3 1(8

C'8-23'BB''>'(6('
C(3'8';2J 1',28 '
C(-K2-';(1';' 28-'
G'0 26<2,
> (7'T<' '921'F(J621'
4(7((6('-', 28 'A(J2'
T 6('L<J' < E
R '6-B'T72(<(

:-;)O+2+6 TO')/;' /*2xC2*2-

DI('1-21',##-72'125-(-6" :' IK6' *##' ,'6 #' '%'G&! B' !:! 'c'( )#E

4 0 25-1

. 0 # ")

"('8'FT6B'-(8
"8-n '
E' (J
E a8B2 "32
F' 8
F'6'T2 '1'4 66
F'-'5(90
F7' (-'
F26-'D-((6.
F ##-1
F 1-
F62#1 < ''
F6 'MJ266 831'
F(6(11 1'
F(6 90' 9'
F' 9(3

F (9'38(8'A'52'
M2#2',(621'
L# 3 '#7 '
8-'=9#62928-1'
G ' -(
,KK1-'--'
, -- -21' '
=815 #-(81
6?T~'2
= (8'"32'
:28-H1'F'X29'
:(8' ' '
: '0 8-7'
: ' 2'MJ266 831'
: '81 83 C'8'
: "'6|82'
C'<2628'8'
C" 86'8'L#(57

9(6 8'O 38(8'
C(8<'E 6<2 1'
C(1-2 q8'
@2'8<2 -7'6

L' 4 -7 65U
E(9<'T(J2 1'
4k 5(#7'3 1'
45' '0'
4726 6',2' '
4(6 - ''7'L#(57'
4#7 8W'
4-(82'"32'
4-(82'C(8 928-1

!K6'8(''
- 62<'I(-1

E (3 d#7 2i

F7'9#(66-(8_> 3 ' ' '
F7'8<62 'A57' <'
F62 9(8- G'882'--'F'4'
?n - 81'L 81-'
E28(8'M(9 8 n 2' g
'8-'0' 8'<2'
M< (8' "<(6#72' @'g
#(6N(8
>#<1J(-7'A(32'
E(<J2 6'L<J' <'
M(52'L-'8(1'
M 3<'62' 4 'R 66 '9'
M 69 572'' (7'8721'
02 1'42(3'C(-2'
EF 726' ,'
E 1'4 ' 28 '
L672 6('M' <' T(1'
!'68- Er 7' <'
L '81'4 ' (78'
I'0 2-- 'A'#7'26'
IF''F' 6('
I266(J1'4 'F7' 621'
I(,521'6 2 8'
In10 (2'T7(9'1'# <'

I '8 1'47'"'R(66'1-(8'
I -J'8362 ' "<(4'
G'38 | 21' I '8p(1'A'
<2
G <82 ' >2 5 ' '

G26'4 'R 66'9

G2 7' <'I'R'%`'
GK<<(K'G2(32'A(0 81'
G(<(8'"62W'8<2'
G(37 A57' <'
G (12' I '851'
O (-2 28<'G2(3'I'
G <2'" ' n ' <'
G -1579 <'"' (8'
,' < ' 4 ' T7(9'1'
' > q
,2'92'T7(9'1'
,685 1'L<J' <'
,(' 2'47'A57' <'F(6-'
,(162 '
=837 '96'I'85215('
'88' ?--('
' 9 21(#'A(02 -'
(821'GJ28'
: 83'DF7'621'R 66'9
'M' <'
' : 3
;' ' <'4'"' ,'
;26'8<' (78'
;28(9 ' I '7 ?1'
;2#1 4' : ' 6'A57' <'
;2- (88F' 2'8'"8-(82'
I6' 2--2'" ' I' I'
C'1#2 ('G'F'?'
C ' "' 4'
@2J< -2'4 'Ap32'
@2J-(8)47'F'T'
?# 61' N N9 2 '5n 21

>2- 2'G2(32'
>2- 2'R 'C' I6 8<2 1'
>6-- A 2 1'"'A';'82'
I(W
>((62'A23 8'6<'4- ' -'
> 812#' ' 92K'
A' 8'T $' F7 1-'8'
A'9 1' 8' 4 ' R6K'9'
C -572
A'(6 A(572--2'>N1 N'
A'11'8 ' (9 <'
E'JK81?8'4 ' 28 'F'
A28(' 4 ' >2-2 ' ;2'
>'32
A(02 -1(8' (12#7'
A(12K 8 '=##(66-F'
4576 29'88' ,26# 57'
457 '<2 ' L02 7'<'
42 ,(W ' <#'3#((-
E',#'G
47'# ,'C'J
49 -7'G2(32'
4#(8' 5n 21'
4- 262 'R 6K'8'
T(<' '921'
DT(J8262 'F7'621'
RK 684?8' 4 ' (78'
G' <82
R685 278'88' (7'88'
('57K8
R((<'"8-7(8''
R 37-'T7(9'1

E (3 '#7 2

"3' <2'" -; '
"3(1-8';2(8' <('
" 2 9'8 ' X'
"179(62'L6'1'
E' 2 'T7(9'1'
E' -ON629 '"8'-(6|' '
E
E25 2 'R 67269'"'
E26B(8 ' G('88' E'-g
-1-

E28-' '921'T72-<(2'
E2 6N'F7k 621'L- 21-'
E 57'4'9 26'
E(11' <' r'8' '5n 21'
E?8<' 4 ' L<J' <' " g
3 1-1
E(3721 'E' -(6 9 92('
E('12' JK6'9'
E -- 32 ' : 2 ' " 3 1-'
E '8<' 5< -

L' 62 ' L<J' <' R2< '
6' 2

S8<1-2<'>2-2'?6 '
3157' 2 8 57' : ' 6'
--1'8'F(8'<'
'8 8'' ' 3'
218(6'' ' 3'>#6 9 '' <6'
F7'9# 6K(8' 2'8 I '8g
p(1

E (3 d#7 2i

F7'9#(66-(8_> 3 ' ' '
F7'8<62 'A57' <'
F62 9(8- G'882'--'F'4'
?n - 81'L 81-'
E28(8'M(9 8 n 2' g
'8-'0' 8'<2'
M< (8' "<(6#72' @'g
#(6N(8
>#<1J(-7'A(32'
E(<J2 6'L<J' <'
M(52'L-'8(1'
M 3<'62' 4 'R 66'9'
M 69 572'' (7'8721'
02 1'42(3'C(-2'
EF 726' ,'
E 1'4 ' 28 '
L672 6('M' <' T(1'
!'68- Er 7' <'
L '81'4 ' (78'
I'0 2-- 'A'#7'26'
IF''F' 6('
I266(J1'4 'F7' 621'
I(,521'6 2 8'
In10 (2'T7(9'1'# <'

I '8 1'47'"'R(66'1-(8'
I -J'8362 ' "<(4'
G'38 | 21' I '8p(1'A'
<2
G <82 ' >2 5 ' '

G26'4 'R 66'9

G2 7' <'I'R'%`'
GK<<(K'G2(32'A(0 81'
G(<(8'"62W'8<2'
G(37 A57' <'
G (12' I '851'
O (-2 28<'G2(3'I'
G <2'" ' n ' <'
G -1579 <'"' (8'
,' < ' 4 ' T7(9'1'
' > q
,2'92'T7(9'1'
,685 1'L<J' <'
,(' 2'47'A57' <'F(6-'
,(162 '
=837 '96'I'85215('
'88' ?--('
' 9 21(#'A(02 -'
(821'GJ28'
: 83'DF7'621'R 66'9
'M' <'
' : 3
;' ' <'4'"' ,'
;26'8<' (78'
;28(9 ' I '7 ?1'
;2#1 4' : ' 6'A57' <'
;2- (88F' 2'8'"8-(82'
I6' 2--2'" ' I' I'
C'1#2 ('G'F'?'
C ' "' 4'
@2J< -2'4 'Ap32'
@2J-(8)47'F'T'
?# 61' N N9 2 '5n 21

>2- 2'G2(32'
>2- 2'R 'C' I6 8<2 1'
>6-- A 2 1'"'A';'82'
I(W
>((62'A23 8'6<'4- ' -'
> 812#' ' 92K'
A' 8'T $' F7 1-'8'
A'9 1' 8' 4 ' R6K'9'
C -572
A'(6 A(572--2'>N1 N'
A'11'8 ' (9 <'
E'JK81?8'4 ' 28 'F'
A28(' 4 ' >2-2 ' ;2'
>'32
A(02 -1(8' (12#7'
A(12K 8 '=##(66-F'
4576 29'88' ,26# 57'
457 '<2 ' L02 7'<'
42 ,(W ' <#'3#((-
E',#'G
47'# ,'C'J
49 -7'G2(32'
4#(8' 5n 21'
4- 262 'R 6K'8'
T(<' '921'
DT(J8262 'F7'621'
RK 684?8' 4 ' (78'
G' <82
R685 278'88' (7'88'
('57K8
R((<'"8-7(8''
R 37-'T7(9'1

:*

G2--2 '

.

"5'<29 'A('6'
"21-72-51'
" '021n 2'
" -'G'662 21'
" -'4'621'
" -1''8<F'-1'
" -'4(5 2-21

" 57 -25- 2'] -A

. 0 # 6 #

"0'5 1
"0'-2<
"002
"0 -928-
"5 (-2 9
"2<5 6'
" 162
" J'8
"65(2
"662
"692
"69(8
"6917(12
"6 2
"90(
"90 6'-(
"9#7 #,(1- 62
"9#7 -72'- 2'
"8< (8
"8326 637-1
"8-'2
"8-2 57'#26
"8-2 57(
"8-2 W'2
"8-729'8O
"#(32
"#12
"#-2 '6
"n 2< 5-
" '2(1- 62
" '2(1 1- 62
" 5'<2
" 57
" 57 - ' 2
" 57 (6-
" 5(1(K 9
" 28'
" 1
"176'
"1- '3'6
"1- 6'
"- 9
"-- 5
"-- 5'0'12
E'5 57(
E' 62
E'65(8
E'66 6(J2
E'6 1-2
E'6 1- '<2
E'8 2 9' 1
E'#-1-2
E' 0 5'8
E' 320(' <
E' -B'8
E'12
E'1292 8-
E'1 6 5'
E' -y9 28-6637-1
E' 71
E'--2

" -'T2'57 83'
E'(n 2'
E B'8-82'" -'
F7 8''D=' . E'
M21 38'
I 82'" -1'
G 22 ' " -'
G -21n 2

E'--62 9 28-'
E'%
E22'
E26 '
E2K 5(-'
E26 2<2 2'
E2 8'
E2857 -'062
E2 26
E2Y'8-N2
E26 -26
E '5 2-
E '--617 83
E (q(7
E 83'6(J
E -- 211
F'062'9(8 < 81
F' <K2
F'9#'8 62
F'8'61
F'85266
F'8<26'0 9
F'82#7('p
F'8(#
F'# -'6
F' -(572
F' -<21
F'1292 8-
F'1-62
DF'-72< '6
F'-72- 1
F' 66 5 6 1
F' '2< 9
F' 2'
F' 2--(
F266 83
F26 2
F7'6p < 58 9
F7'9 2
F7'8526
F7'#-2 7(12
F7'926 7(812
F7g-2'
F72 2-
F72 (8
F7 982
F7 9 9 2 #6252
F7(
F7 219(3 '#7 (8
F 8n 2'F28-(
F62 -7 '6
F62 21-(
F6('5'
F6(1-2
D(28'2 6 9
F(2
F(6(88'<2
F(6 98
F(9#6 9
F(9#(1 -2'(<|
F(9#(8<'#2
F(857
F(8 1-2 9

'#' =4'. !'
C'5'0 2'
C(8 928-'
C '6'M25(,"-(8'
C 12 91'
? 8'928-
A(5(5('
A(9'8'" -

F(# 83
Fn 726
F(0 2
F(8 52
F(8-2 (-
F 282662
F 21-
G ((-2
? (11 83'
F (11'1# 832'
F #-
F 8-(#?, 5K1
F 0 562
F 92 1
F #(6'
FK K 8?3
281#
F (6(#248'9'1(8
FT2(1- 62
F 9
F -(1- 6(
F Y 528 81
M' 1
M25'1- 62'
M25('-2<'>2 (<
M28- 6

6'1- 62'
M6' 6(1'
M 'B(,9'-8'
M6R
M #-2 '6'
M6#7' 3 6 3'' 57'
: # #'
M(<25'1- 62'
M(3 -((-8'
M(9 2
M(8 (8'
M('
M(J' '
M(9 2'
M(9 -(
M?112 2-'
M ' -2<'9'1(8 '
M#6#1-(82'
M (9(1'
M7832(8
L'#6,'L836 17'>2 (<
L8 21
L57 8 1
L 26'T(J?
L6 B'02-7'8'4- 62
L90 '1 2
L83'32<'5(6 98
L8-'06'- 82
L8-'1 1
L#7202 9 8
L#=
L#68'(1
L# 1- 62
L1- '<2
E 1- 62
LW2< '

" 57 -25- 2'] -A

LW- '<(1
I 'p'<2
I '8' ' 6-
I2 82 28
I2821-2'-(8
I2-2-(
I 1-((8
I 662-
I6--6'6
I6'90('8-'4- 62'
I6(572'
I6((
I6 83'78---211'
I((-1-'66
I? 92 2-'
I(8-' 8
I ,-2'DI '-2',(12.'
I 2 1-(82

I 2B2'
I 36<' 98'
L (8- 1# 222'
G'062'
G'062-1'
G'6622'
D'#2
G' 3(62'
G' 2-'
G' 2'
G'-
G'-27(12'
G'B20('
G6 #7'
G6 #-(-72 '
G2< ((8'
G(-7 5'
G' 832'
G '-2'
G (8'
G K((72'
G --'
G --2'
G 8'252 8'
,'4 1((#2'
,'6'- 902'J('
,'6
,'9 92 02'9' ((''
,26
,N9 5 562
,2 83 0#82
,|W'1- 62
,# 8(0
,##2<' 22
,##(< (92
,2-26 <2 K(
,?-2 M2K
,(12
,#'2-7 (1
,#(5' 1-
,#(1- 62
,#(-'57|66 9
=57 (3 '#7
=5(8(1-'1 1
=90 2W
=9#6 86
=9#(1-
=8 '8-'1
=8< '8'" 57 -25- 2'
=8-2 5(68 9 '- (8'
=8-2 6'52<' 5721'
=8-'<(1'
'5(02'8'4- 62'
'90

" 57 -25- 2'P' *6 I# ,';h E

z80N'
:226 9(6<83'
:22#'
:2 1-(82'
;'026'
;'0 9'
;'5(8 (-6 8'
;'5 8'
;'< F7'#26'
;'852-'
;'8-2 8
;'8-2 81'('-72'M2'<
;25-2 8
;8-26
;?-
;(2'D;(2.
;5' 82
;782--2
C'(0 2(6'-(8
C' 1((,
C'8(7(,12
C'1-'0'
C' 1(62K 8
C23' (
C2 6(8
C(17 27 '
C2-'
C2-(#2
C2BB'8 82
C 7'0
= #8' 2-
C 80'
= 681-2
C(<K6(8
C(< 62'
C(8(- 36 #7
C(1n 2
C(6< 831
C 6(8
CK-862
@' -72W
@' 2
@2J26
6 572'

(4u1
?2-'1- 6n'
?<2 9'
?2(1'
?322'
?3 2'
?662-1'
? <2'
? <8'852'
(26

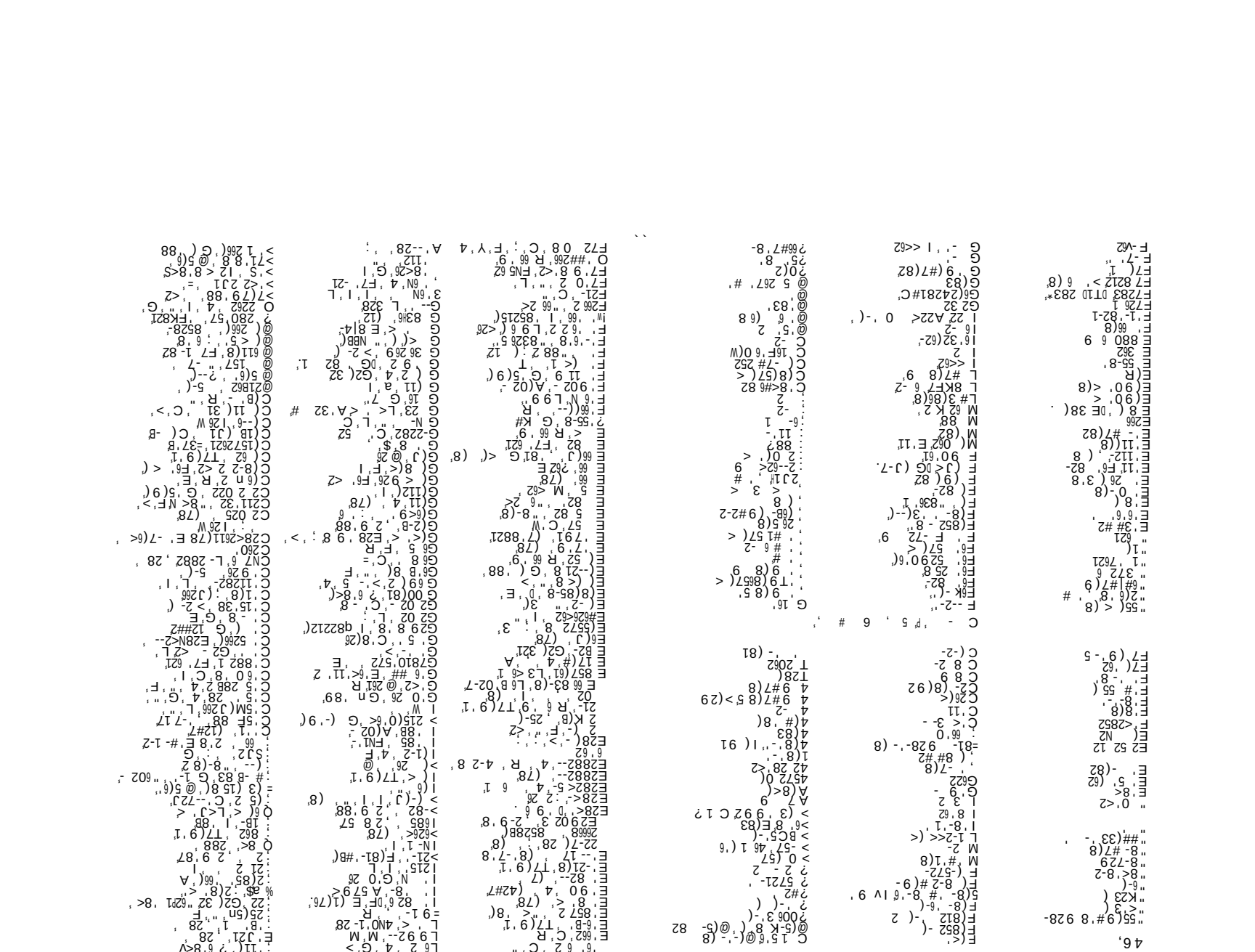
? -7(1- 6N
? 06 2--2'
? (6(
>'3(<'
>'6'52
>'6'21- '
>'66'<'8
>'826
>'8-72(8
>'W'928-
>' '#2-
>' '15286K W
>' (6(12
>' 32-- 83
>' n 2-
>' -728(8
> 1

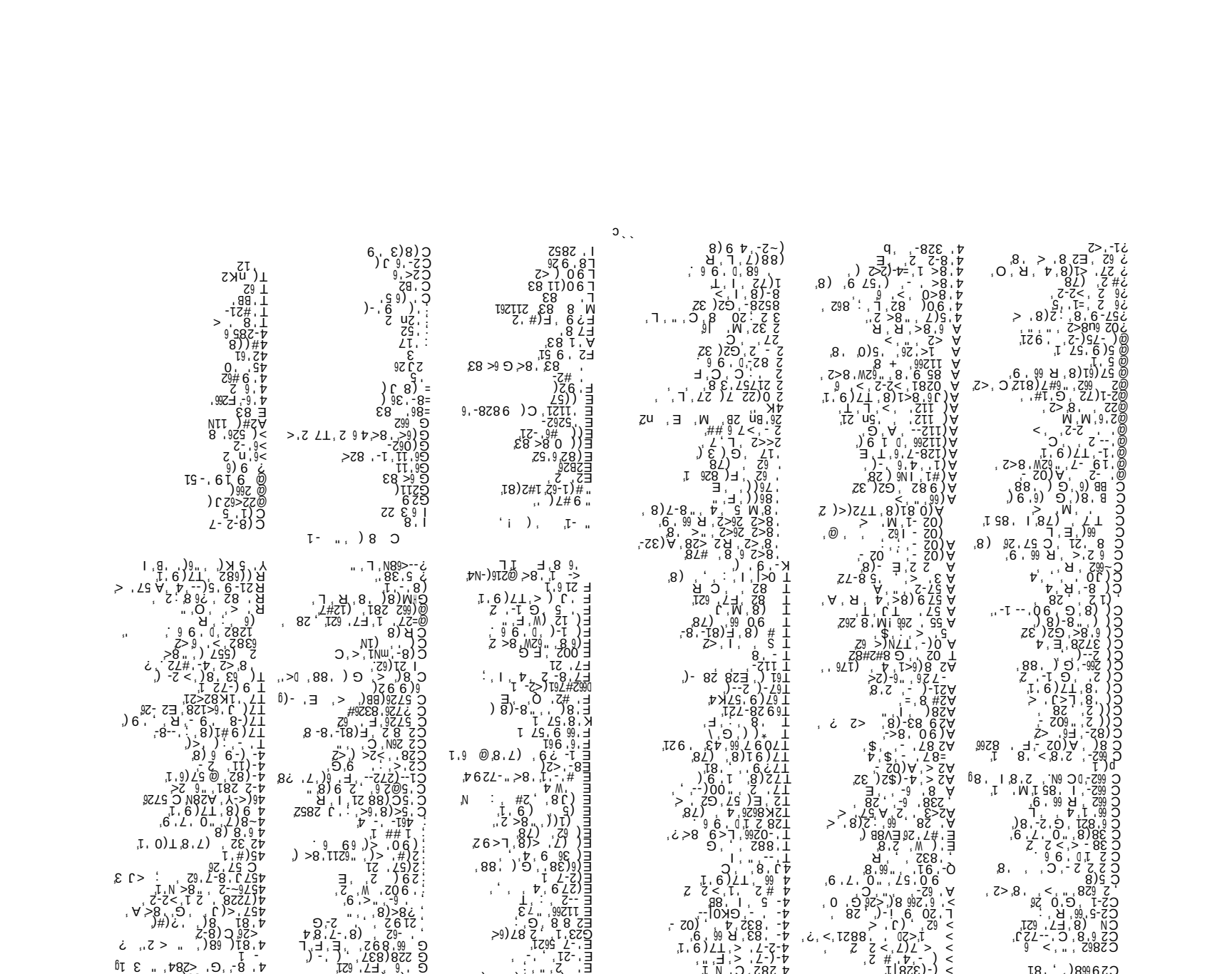
>'-2 '
'- (
' '292K-'
>' 6(8

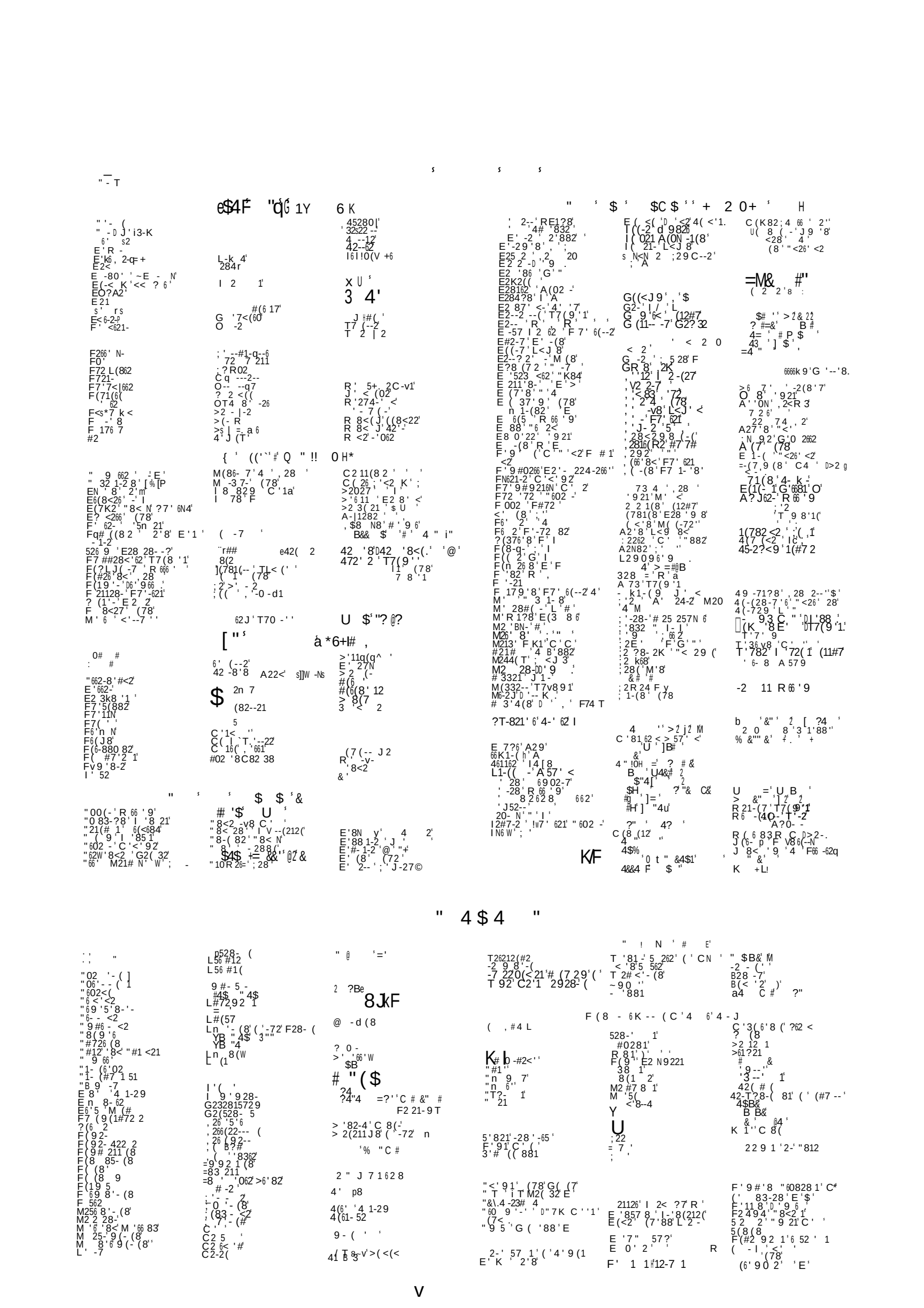
>2< 928-
>28<'8-H
>28<2K- 2
>2 #-2 '6
2 1- 6('
2 #28<'586' '>2 (<
2 #28-'1-(821'
2 ('
'BB''
>2'
#6'1-2'
>66'
>68'5(-725'
>88'562
>15 8'
#6'8
>6'8522-
>6'1-2
>68-7
>(<6 8
>(##' 72'<1
#(57'
#(-(6K
>(-5(
>(1-2 8
>210 -2
>62 '#(1-1
>(# 6'2'
>(1528 9
>(1- 62
>(-721 4
>42 <(<6#-2 '6
>12 <(' #2 #-2 '6
>-2 (8
> 6# -
> 6 8
> 58(1- 62
> ' 9 <
> ' 9 <(8
O '< 3'
O- '- 2 (6
O (81
A'3 1-(82
A2' ' #6-
A2 25-(
A23 T'
A2 2<(4
A21#(8<

(<
A(37'F'1-
A 0062
A 1- 5'- (8
4'5 1-
4'<<62
4('006 83'
4p'9 66' 9#' 21'
45(-''
42<6K'
42# 657 2'E'1-N'
42 2
42W#' -6-2' ' 6-
47 -
4 66
46 #2
4(-
4(6'' D4?K2 .
(9 9 2'
#'8<

``<

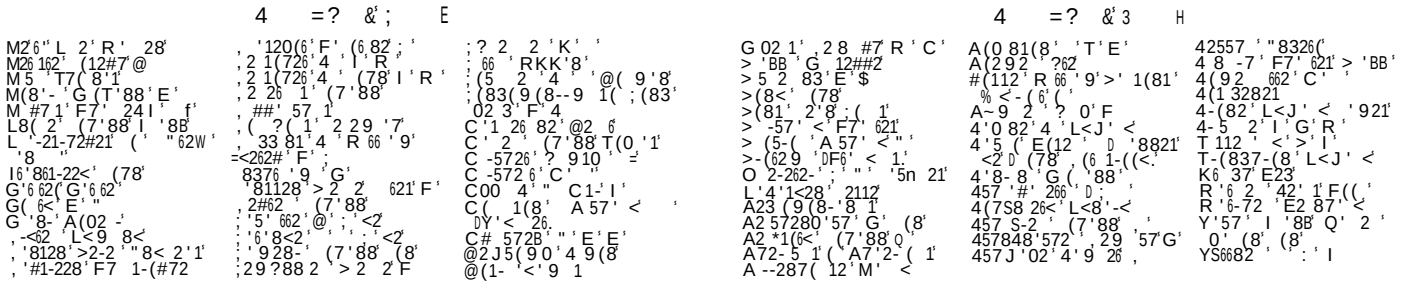






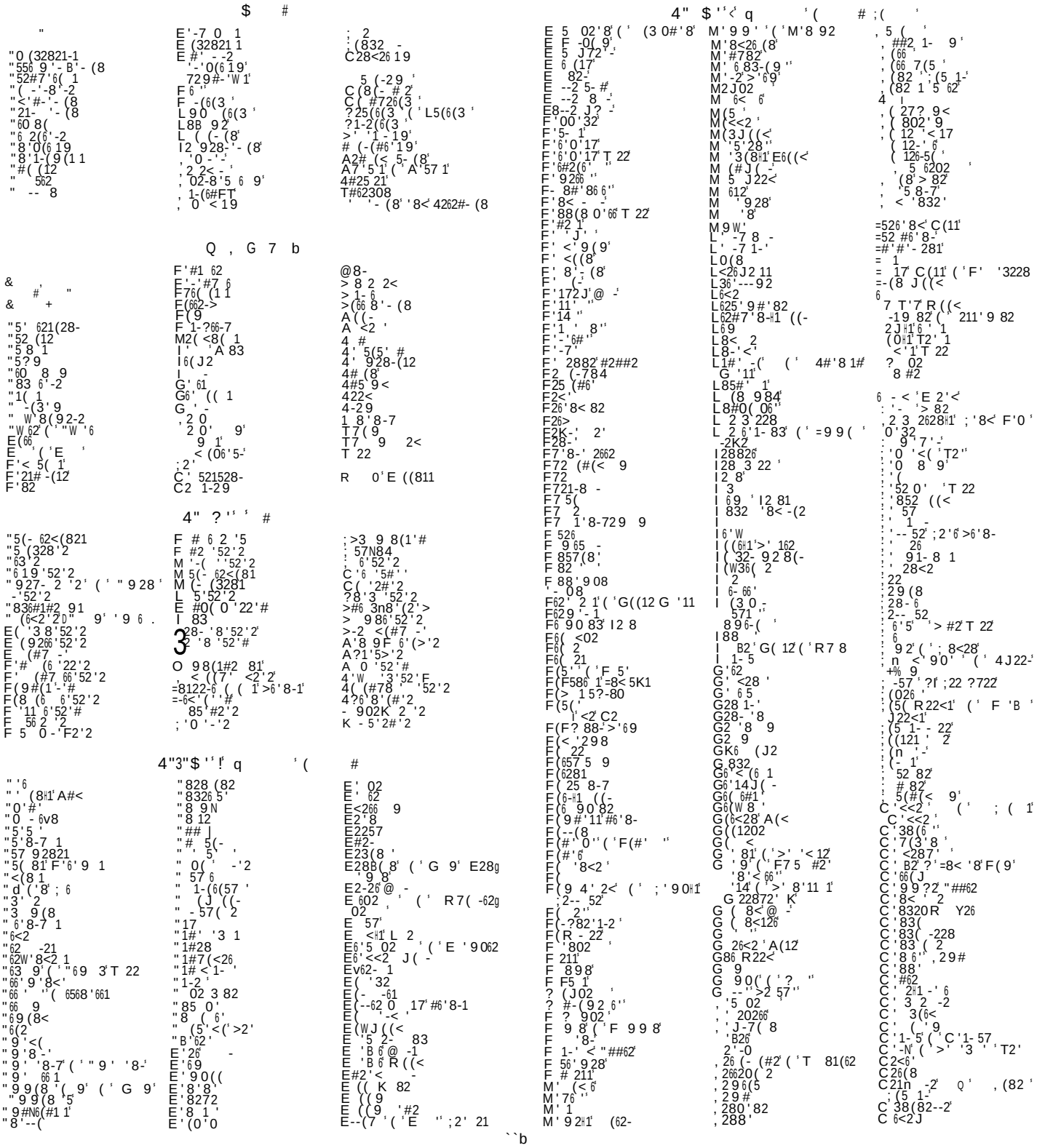
¨E=? ; ? G

4 =? &; E



4 =? &3 H

2+ +32-



E=? ; ?GXZ

+*6?29'B' q '+ #'3# H

C 6 J(-
C 662-
C 9v1'
C 8 66 1
C 8-
C 1-62-(2
C (6
C (9(<6?'
C (v8122<
C ((J(,'('C ((8 2 8
C (2-(8 E' 'F721-8 -
C 5 8'
C 602
C 17 ((9
C 1- <
C (0'6'81
C 7
C -62
@' 5 1271
@'1- - K9
@2--62
@2--62' T 22
@ 37-17'<2
@7-2 22
(' ?'-
?62'8<2
?62'1-2
?6 2
?8 (8
? k(7 (' C(8-' 8
1# 8'(7
?'832
? 57 <1
? 1 A?(-
?1 2
?W' 1
>'2(8
>'69
>'692--(
>'81 '(,2' -12'12
>'# 91
>' 162
>' 18 #
>'11 (8<(J2
>2'
>2'57
>2'
>266-(
>288 ('6
>28-1-29(7
>2##2
>2##2 89-
>2##2'T 22
>2 1 99(8
>2- 8'
>76(W
>7(9 9' (' @2J'
Y2'6'8<' I6'W'
> 928-('
> 82
> 82 '##62
> 8
> 1-'57 (' @ -
> -572 #6'8-1
>6'82'
>6'8-'68
>6 9

>(812-- '
>(202 '('>(2J22<'
>(6 '8-7#1'
>(6 #(< 9'
>(923 '8'-(
>(8<J22<-'
>(#6'
>(##
>(-'-(
>(-28- 8'
> 78 (52
> 2-
> O'66
> 9# -
> 16'82
> 2-7T-(8
O 852
A'< 17
A'9 2
A'91(81
A'8 85 6 1
A'#2
A'1#02
A22<
A7(<(<28< ? 8
A 52
A6(7' < '
A(0 8 '' ?' ; ?(K1- - 22
A(5'90(62
A(12
A(129'
A(12J((<
A(1 8 (F(6(#7(8
A('6 I2 8
A 002
A 2
A 17
A 2
4'0 ('R ((<
4' 6(J2
4' 65?8
4'3(
4' 8 (8
4-' (78H'R (-
4'61 '?'4 'R
4'6 '
4'#'8'R ((<'
4' '5288'
4'-8'J ((<
4'W '32
45'9 9 (8
45(B(82''
45 2J'# 82'
42' '62
42'J '5
42< 9
42n ('
42 52'T 22
421'92
17'<<(5
47'E2-
4 1'6 , 9--#
4 2-
48' 2 ((-
48'#< '3(8' (' "8- '
77 98'
48(J< (#

4('#0'
4(37 9
4(26
4#'8 17'E ((9
4# 28' <' (' <
4# 8'57
4# 52
4-68 J((<
4- 'J02
4- 5#7'8-7 1
4 <<
4 9'57
4 8<2J
4 8 6(J2
4 88 ('=8< '' L-286>
4J22-'>(-''-(
4J22-1(#
4J -57'#6'8-1
T'66(J'T 22
T'9' 8<
T'9' 1
T2'
T2'

T2 20 8-7
T7 1-62
T7 92
T 32 6(J2
T('<1-((6
T(0'55(
T(9'-(
T(8n '' E2'8
T((-7J(-
T ' 2662 #1' T 22
T 22 2 8
T 62
T 02 (12
T 6 #
T 6 # T 22
T 9062 J22<
T 92 5
TK9 #
'8 K'
232-'062' C' (J
28 1#1' I6 - '#
28 1#1' ;((683 36'41
2 '- 9
2 028'
2-57
82
(62-
R'68 -
R'-2 6 6
R'-2 -7 92
R'W - 22
R72'-
R K(J
R 66(J 72 0
R 8-2 3 228
R 2 -2-#1 0'
R -57 7'B26
R(' <
R(9 J((<
X'9
X2J
X 55'
Y 88 '

E' A K ▽ 'b

DI(' % $6' '8<' GK6;! :6'122' 8<2 ' & ! ' / !

> "
> " ' : , +6 '
> " L'e # '
> " ' j # 6 #

"0(9'1 9'
"52-'0 6 9'
"8 9'6
"n ' ' 9'
"' ' '
'E2'
E 22<1''8<' E 22< 83'
F' '#'52
F(6(1'('"8 9'61'
F(9#' '- 2"8'-(9 '
F(857
F(8- '5-62' '5 (6(
F 2# 15 6'
M2J 56' J

M2J6'#
M(1' 28- '6'
M 2<
L33
I2'-72
G 0
, 2 <
, 02 8'- (8
=8580'- (7' '7<' =85 g
0'-(1'
=81- 85-
=8-266 32852' 8' "8 9 '61
:' (3' 9
:' '6 I(871
C23'8 562[4
C290 '8266 0
C2-'92 1-8
C2-'9(#70q6i

C 5 (8 262 1
C 3 - (8
C7(8 2
C (8 2
C (81-2
C (6-
@21-
@ < 5'- (8
>6'8 -(8
> (0(15 1
> 6(92
O 66
A23282 '- (8' (' = (}-'
>' -1'
42W
4(83'D(' E <1.
T'W<2 9
2 9 8

a44#4 ' ' '&" " C' B' - @

"5'8-7052#7'6'
"5 82-'
"5- 8(B('
"63'2
" 9(20'
"8826<'
"8-7(B('
"##28< (86'-'
"#-2 '
" '578 <'
" 526 '
" -7 (#(<'
" -5 6'-'
"1# (-2(57'52'2
E' '57 (#(<'
F' 9#(<2'
F2#7'6(#(<'
F7'2-(38'-7'
F7'2-(#(<'
F 6 '-'
F(55 < '
F(2628-2 '

F(62v#-2 '
F 1-'52'
F/-28(#7(7
F 1-(6'3'66'-'
M28< (5(7 2-v4
M219(15(625 <
M 3 '
M 8(6'3266'-'
M#-2 '
L57 8(<2 8 p
L57 (<2','
L5-(1#('
L8<(1#('
L8-(9(1- '('
L# 1- 6 1
I 6(1'
I6'3266'-'
I('9 8 ('
G'1- (#(<'
G'1- (- 57'
G2#7 2'
G6(0 32' 8'

G8'-7(#(<'
G 23' 821
G 98(1-(9'52'
, '29(1#(< '
, '#6(< 6
, 2 (B('
, 29 #-2 '
, 2-2 (' (-'
, 2W'#(<'
, < (92< 1'2
, < (B('
, 928(#-2 '
=8 1('
: 8(7 857'
: ' 0 8-7 6 <2'
: ' 9266 0 '857'
, 2# <(#-2 '
C'6'2(1- ' '
C'1- 3(#0('
C2< 1'
C21(B('
C(66 15'

a4 #4q' ' '&" " C' B' - '3 H

C(K 15(<'
C 52-(B('
C (8292 1
C 6'#(<'
C B(1 (96<'
@29'-(<'
@29'-(9(#7'
@29FT-8'
@2 (#-2 '
@ 99 6-2
?#'68'
?'-7(#-2 '
>' '925 9
>2<6#'6#
>26(9 W'
>28-'1-(9 <'
>2 #'- 1

>2 11(<'5- 6'
>7((8 <2'
>6'8' '81
>6'- 269 '
>(6 #
>(B('
> '#'6(<2'
> (-2(9 W'
> (-1-'
> (-(32821
> (-(9 W'
> (-(B('
>12 <(#(<' >12 <(' #(< 9
> 58(3(8 <'' ('>'8-('#(<''
A'<'-'

<(6' '
) (#(<''
A?- 2'

'#7(#(<'

4 #782 6' <2'
4#(8321
4#? (B('
4-28-(
T7 -?1- '5'
T7 1'8(#-2 '
T7 1''
T 29'-(<21
T #'8(1(921
89# 266''
(- 5266'

a44#4 ' ' '&" " C' B' N -

R# #+

"9#7 7'
" -(<'5- 6'
" 9#76(W 1
E'6'8(36(11 1
E'- '57'
E(<'2
F'25K '
F' 8 ('
F2-'52'
F7'2-(1(9'- <'
F7 (#-2 '

F <(1-59'-'' (' C' 4=' #(0'857

4 <28-'-''
Ln <'2
, 29 57(<''
'5(6<2''
=8125- (''
C' 18# '6 '

C(8(- 29'-'
>25('
> (0(126<2'
>-2 (0 '8(7 '

A'- -'2'
A(<28- ''
A —

426'57 '81' (' I6'19('
7 '8(7'
4 8''
T' < '<''
T262(1-(-'21'
T 85'-''
T 6?#(<''
K837 -'

a44#4 ' ' "B # &"4 ''G' S ,

DI('N '$' !$;'122' 8<2' +;%'! ;'C'." 6 6 #E

4

"' < '
"' < J(6
"<<'W
"3(-
"6#- 5'
"8- 2'-2
"8-26(#2
"8-7 (#(<'"#21
"(8'
"#2
" 3'6
" 9'<66(
"11
"8(571
" '7
" 2 ' 2
E'0 1'
E'0((8
E'<32
E'8< 5((-
E'8< 5((- '-
E'8- 8
E' 0' '"#2
E'-
E2'
E2' 2
E26 3'
EO' '6
E68- (83
E 1(8
E6'5''"#2
E6'5 'E 5
E('
E(83(
E(--628(12' R7'6?
E (85(
E 5
E '6(
E 170 5
F'# 83' R7'62
#
F'# 57 8' C(8 2
F'# 0' '
F' '5'6
F'-
F'-' 7 82'"#2'
F' ,
F7'59 ''
F7'9(1
F722-'' (' , 8-83' ;2('
#' <
F72 (-' 8
F7 8#'8B22
F7 8-9 66'
F76
F 2-
F6(<2<' ;2(#' <
F(' -
F(6 3(
F((-2
F(#
M'1 2
M22
M '8'' C(8 2
M 83(
M(3
M(6#7 8
M(9(12
M((5(6
M (92<'
M 3(83
M 2
L?76<8'' (' >(5 # 82'
"8- 2'-2 '
L6'8<
L62#7'8-'
L6

L 9 82
L '
I'66(J <22
I2 2-
I 26< 9(12
I 6'8<2
I6 83 (W
I6 83 1n 26
I(11'
I (W
G'6'3(
G'62(# -725 1
G'
G' '6
G26'<'
G282-
G2 0 6
G2 28
G 00(8
G ' 2
G6 --(8'('R(6 2 82
G8
G('-
G(#72
G('6
G(66'
G 228'C(8 2
G 1(
G 2-
G ((2 -((-72<' 1n 26
G (8< 1n 26
G '8'5(
G 28(8
G 2 28'
, '91-2
, ' 2
, ' -20221-
, 2<327(3
, 2 (8
, 8<
, ##(#(-'9 1
, 12
, (88<
, (J62
, 9#0'5 J7'62'
, -9- 83'M(3'
, 28''
=#2W
=5782 9(8
=8< 6
'5 '6
'3 '
'3 ' (8<
2882-
2 0('
9# 83 7' 2
9#683 9(1(
9# 83 17 2J
: '83' ((
: '83' (('-
: 8 '(
: - (W
: 6#1# 832
: ('6'
: <
: '83
: 29 9 83
: 29
: 2(#' <
: 81' 3
: (8
: 6' 9'
: (1
: -W
C'5'n 2
C'5 '85728 '
C'8'-
C'8< 66
C'83'02

C'776
& e<1)M
C J 7(0
C' 9(12-
C' 9(-
C' -70 5
C' 1 # '6 C(62
C' -28

C-(V'5
CK4 <22
C71 =.P
C#1 '-
C 1 17 2J
3 J
?526(-
C"=3#4$

?#(11 9
{ '73 -'8
-7-
? W
?--2
?W

>'6-' ? 2-
>'8<'
>' 6 8
I' J2
#' '7'M(3
>'-'1' C(8 2
#255'
>N 2'M' <#1'M22
>7u6' 92
> 5'
> -725'8-7 (# 1' L 2('
-K4
>6'- # 1
>6K-(C(8 2
>?(2- 3(#72
>(5 2- 9(12
>(625'-
>(8
>(5 # 82
>(#(12
>?-(((
>(--(
>(572<' C(12
> ' 2 9' 9(-
> 08'-21
> ?7(151 9(2
> (830 (
> 9 '
O '33'
A'00 -
A'??#(8
A'55((8 <(3'
A'-
A'-2]
A22<0 5
A2 8<22
C 8(22 (1
E7 - 8'
A 2 7(3
A(5 C(8-' 8'G('-'
A?? 7 5
A(n '6'
4'062' "8-26(#2

a44#4 ' ' "B # &"4 ''!' + ' | H

4' 3'
4'
42'6
42 (J
42 '
47 2J'
4 6''
4 28 ''
4 8 '
46(-7
48(J 62(#' <
4(16
4#2 9 J7'62
4# <2 9(8 2
4# 8 '4n 26
4# 830 5
4n 26
4n 26 C(8 2

4-' 8(12< C(62
4 5'-2
4 J 82
T'7
T' 8
T'#
T' 1 2
T28 25
T7 6'5 82
T 32
T 32 5'-
T 902 J(6
T 22 : '83' ((
T 22 17 2J
K<' <' "(8<'<(' " <'<
K' '
'9# 2
2 2

5 38'
15'57'
(62
R'66'0
R'6 1'('C(12
R'6-B 83 C(12
R'8<2
R' - 7(3
R'-2 0 5
R'-2 <22
R'-2 (#(11 9
R2'126
R7'62
R(6
R(90'-
X'
Y20 '

a44#4 ' ' "B # &"4 ''!' ! '3 H

; 83
; ('57
; 98# 1 5 2' (' ; 9#g
17
C'5 2 26
C'7122 ' ('C'7'122
C287'<28
C 662 #1T7 90
C 88(J
C(9
C K2-
C '28'
C ' F(<
@' J7'6
?#'7
>'
>' (- 1721
>2 57
> 2

> 2 #2 57
> 657' <
> 6(- 17
> #2 1721
>6' 52
>(66'5 '
>(66'8'
A'
A 00(8 1721
A('57
A <<('A2< 2 2'
4'69(8
4'8< 226('4'8<' ; ' 852'
42' 7(12
42' J(6
47'<
47'
4722#172'<

4 6 2 617
4 926-
4(62
4# '-
4- 5 620'5
4- 632(8
4-9 17
4J(< 17
T2857
T (-
T 88
T 0(-
28<'52
R22 2
R7 -20' -
R7 -2 17
R7 - 83
R '112

a44#4 ' ' "B # &"4 ''!' I

b 0 "

"60'- (11
"
E255' 5(
E <1' ('>' '< 12
E --2 8
E6'5 0 <
E6'5 5(5
E 66 857
E 8- 83
E 1-' <
E BB' <
F'8'
F'#2 5'66 '('F'#2 '66
F'11(J'
F7' 857
F(5 '-((
F(5 (-72 A(5
F(8<(
F((-
F(' 9('8-
F' 82
F (110 66
F (J
F 5 ((('F 5 (J
F '11(J
F 62J
M 2
M(<(
M(2
M 5
L'362
L <2
L 92
I'65(8
I 26<' 2
I 857
I6'9 83(
I6 5'-572
I(J6
I 3'-2 0 <
I 78'
G'<J'66
G'882-
G' 2 (J6
G' 3'82
G('-1 5 2
G(<J -'
G(6<28 2 2
G(6< 857
G((12
G(1 7'J
G '5 62
G 202
G 228 857
G 22817'8
G (102'
G (12
G V57' (
G '8
G 6629(-
G 82'' I(J6
G 66
, '#
, ' 2'(' , 28' , ' 2
, ' J 857
, ' J
, 2 (8
, ('5-B 8' (' , ,('-B 8'
, (82 2'-2 ' (' , (82 '
1 5 2 '
, (82 3 <2'
, ((#(2'
, (80 66'
, 9 9 83 0 <

=0 1
=5782 9(8 6 '
=5-2 1'
' '0 '
''5'9' '
'(' 8V
'5 <' J
'
: ' '#(
: 21- 26
: 66<22
: 83 0 <
: 83 172
: 8362-
: -2
: J'(': J : J'
: 8(-
: 9 92 32 2
: '#J 83
:
: 882-
: ((9'(';((8
: (
: 2 0 <
: 2 0 <
C'5'J
C'3# 2
C'6629 5
C'8' 8
C'8 5(<2
C' - 8
C23'#(<2
C2 3'812
C2J
C('
C(5 83 0 <
C((728
C(66(8
C(-9(-
C(12 0 <
@21-(
@@ 37- 83'62
@@(<<
@@(8#' 2 6
@ -5 '5 2
@ -7'-57
?5 '< (92
? (62
? -7(8 W
? -(6'8
?1# 2 '(' ?1# ' '
?1- 57'
? 126' (' ? B26'
? J6
? 1-2 5'-572
>' (-
>' - <32
>2'5(5
>26 5'8
>283 8
>2- 26
>72'1'8-
> 5'
> 32(8
> # -
> --'
>6(2
>(57' <' >(5 ' <' ('
>(2 '
>(-
> '- 85(62
>-' 9 3'8
> 0 <
> 8
O '6
O 2B'6 ('O 21'6

A' 6
A' 28' '
A'B(0 66' ,(' A'B('
0 662< '"
A2<0 2'1-' ('A(0 8'
A2<17'8 '
A2<1-' -'
A2<J 83'
A72'
A 62 9'8 0 <' (' A 62'
0 <'
A(662 '
A(('
A
4'8< 3 (12
4'8<# #2
45' #
45(-2
45 2'92
45 0 0 <
425 2-' 0 <
42 29 '' ('F' '9'
472' J'-2
472'-70 K'
4726< ' 2
47(2 0 66
47(262
47 2
4 1 8
4 9 92
4 '
48' 2 0 <
48 #2
4#' (J
4#((80 66
4-' 6 83
4- 6-' (' ;(83' '62 2<'
>6(2'
4-(
4 3' 0 <'
4 8 0 <'
4 8 0 --2 8'
4 J'66(J'
4 J'8
4 J -
T'8'32 0 <
T'#'5 6(
T2'6
T2 8
T7 17
T 8'9 (
T -9 (12#
T(<
T(5'8
T('5(
T 22 5 22#2
T (3(8
T (# 5 0 <
T 9#2-2 ' (' T 9#2-'
0 <'
T 2 '
T- 91-(82'
6- 2'
R'3-' 6'
R' 062'
R'WJ 83'
R2' 2 0 <'
R72'-2' '
R7 -2-7 ('-'
R 32(8' (' R <32(8'
R((<57 5 '
R((<5(5 '
R((<#25 2 '
R 28'
R 825 '
Y(1-2 (#1

a44#4 ' ' "B # &"4 ''!' I

M2'-7 J'-57
M' 3(8 6
L' J 3
I 2'E '-
I 2 6
I62'

G6(J J(9
G8'-
G '117(##2
G (8<#2' 6
, ' 21- 3
, ' 21-2
; 29 92 1
; ' - < <
; '52'J 83 6
; '8-2 8 6
; 2' 8125-
; (5 1-
; (12
C'8- 1
C'8- 1 6

C' 6 '('L#7292 <'2
C(1n -(
C(-7
>'692
>7 66(W2 '
4'J 6
45'62 8125-
45(# (8 6
48' 2 6
4# 83-' 6
4- 5 8125-
4-(82 6
T' '8- 6'
T2 9 -2
T 5 1
T12-12 6
R'1#
R'-2 0('-9'8
R'-2 15(# (8
R 22 6
R 2J(9

a44#4 ' ' "B # &"4 ''6' <

5 ,#
% "

"5' 1
"6<2 6
"8-
"8-' : (8
"#7 <21
E22
E22-62
E <6(12
E 3
E --2 6 ''8< C(-7'
F'<< 1 6 ' '8< F'<< 1'
J(9'
F'-2 #66' '
F7' 2'
F 5'<''
F(57 82'6'
F(5 ('57'
F 5 2-'
F 5 ((1# -

a44#4 ' ' "B # &"4 ''6' o# #,

o# y#,

"<<2
"66 3'-(
"6 -21
"9#7 10'28'
"8'5(8<'
"1#
E'1 6 1

E(' ; B' <
F7' 9262(8 > (-2 1
F(0 ' > -7(8
F(5 '- 52 A'--6218' 2
F (5(< 62 42' 22 #28-
F #-(0 '857 1 48' 21
M '3(8 4#728(<(8
G25 (T(-(12
=3 '8' #2

a44#4 ' ' "B # &"4 ''6' I

Y

"W(6(-6
I (3

@2J-
4 8'9'T('<
T'<#(62

T 22' I (3
4'6' 9'8<2
4 28

a44#4 ' ' "B # &"4 ''!') ' -

"0'6(82'
"1-2 <'
E' 8'562'
E r572 <2 C2' (' T 2'
#'83
E((15(# (8
F28- #2<2
F7 -(8
F(5 62
F(J
?'0
F ' 17

F --62' I 17'
L' -7J(9'
: 83 5' 0'
; 2257'
; (01-2 '
C 66 #2<2'
C -2'
C 1126'
@' - 6 1'
?5-(# 1'
? 1-2'
> 'J8

45(# (8
42' 57 8
47 9#
48' 6
4# <2
4-' 17
T'#2J(91
T2 2<(
R'-2 62'
R((< 6(12
R(9

a44#4 ' ' # 4$"4#4 '

& # " '

" 906a #(<'
"85 6(#(<'
"8-7 5(-72 9
" 57'2(#-2 W
" 1 8S -72 9
F 2(<(-'
M 8(-7N 9
M #6(<(5 1
M (# -725 1
G'8(<(8-'
G6 #-(<(8

G '#-(6 -21
=57-7 (1' 1
=3 '8(<(8
: -(#-29'
C'57'2 (< 1
C' 9 9 (-7
C'1-(<(8
C '-72 9
C 6- - 02 5 6'-'
C 6(<(8
?<(8-(9 -721
? 2(<(8

?1- '5(<2 91' (' ?1- ''
5(#7(21'
>'6'2(1#(8< 6 1'
>'6'2(-72 9'
>728' ((< 1'
>7((7'5(1'
>621 (1' 1'
>-N (<'5- 621'
4#' 11(<(8-''
T 66(<(8-
T -'8(-72 <'2'
T(W(<(8- ''
T 6(0 -21

4 =? &

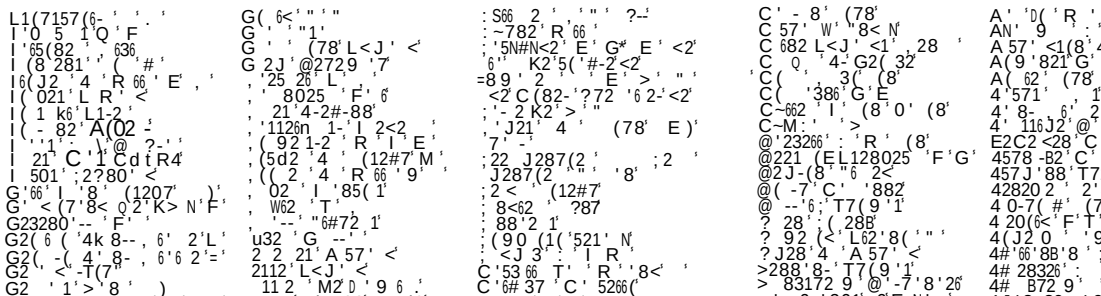
"57' 1' L '
"<' 91'" L.
"<'81(8' C'5726'
" B26 1' "<'9'
"3'11 B' "' L
"3'11 B' ' ' A
" -(8' R 66' 9'
"60 8 1'DR2 11.' E' 4'
"6< ('8< ' K6 11'
"669'8' G2(32' '921'
"6# 8 '> (1#2 ('
"61-(8' F7' 621'
"90 (1 8' E' -(6(92('
"8<2 1(8' '921'
" 28(-((1' "
" -2<' >2-2'
" <202 -' ' E'
" <(8' 2' 8 5-('
" < 0(8' (78' '921'
" 20 ' ; 00(5 '
E' (8
E'2 ' : ' 6 L 81-' (8'
E' <' 4' I
E'6 (' I' C

E'8 1' 4 ' (12#7'
E' -(8 E' 4'
E'-21' 28 ' R'6-2 '
E' 7 8 ' G'1#' <'
E26(8 ' > 2 2' '
E28-7' 9 ' G2(32'
E2 262 ' C'
E6' 8 662' , ' C' M 5'
(-' <2
E6(57' C' ' L6 2B2 '
E6 92 80'57' ' I'
E(8#6'8<' " ' '"
E(<2 4' 8- 8528-
E(E' G' C
E(12 ' " ' G
E 11(8' C'
E (<2 #' R' '
E (838 ' -' " ' T'
E (11(82-' > ' C' " ' '
E (J 8' A(02 -'
E 5 6' 8<' I' T
E (8' G' ; ' /F (9 -2<2'
F'21'6# 8 1' DF21'6# 8(.'
"8< 2(1

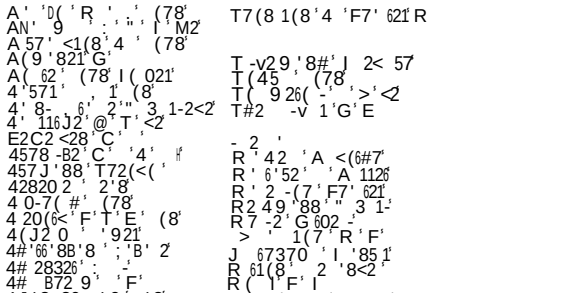
F'92 ' 1' ('57 9'
F'92 ' 1' A'
F'9#2 ' >2-2'
F'8<(662 ' " ' >' <2'
F' #28-2 ' R' E'
F' ' 8 6621' " ' '
F6'#' I<2 ' ' ' A ' " ' L'
F(00(6<' T' 4'
F(78' I2 < 8'8< 6 1'
F(902' G2(2'
F(21' L
F 2 ' E' (8'
M' J 8' F7' 621' A'
M' J 8' L '19 1'
M' 028-(8 ' ' ' C
M2' E' ' ' ' ' '
M21 (8-' 821' A' ; '
M 6628' DM 6628 1.' ' '
M(8(' 8' L<J' <'
M ' 8<2 ' (8'1'
M 7' 926' < ' C(852'
' ' '
M' - (572-' A' ' ,'
L<J' <1' G2(32 '

`b\

4 =? &! E

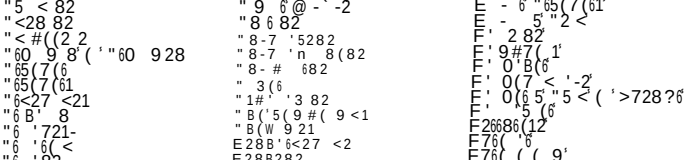


4 =? & E

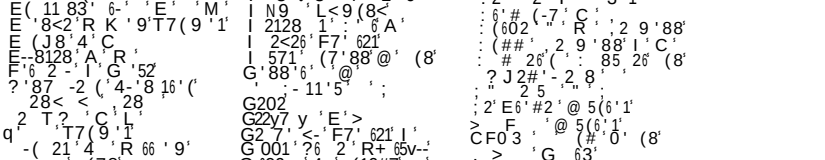


N % 2 &'

$



$ C E



$4 $ C

4 =? &

$ C

4 }9? E s E

C' 38'5' 2'8'F'G'<2'
C' (J' (78'
C28<2'2 6' M#6- 6'=',
C2 2 : (-7'
C2 2' 2-8'
C -1572 6 57'E
C(7'' I 2' (7'
C0 11'8' 28'
C28<'Y K<J 3

C T-' ' (78'
C 4# '--)' 8<' 4'
@2J6'8<1' (78'" ' A'
@(0266'"8-2<E
>'1-2 ' (6''
>26(8B2'T 621'
>2 7 8'4' R '
>2--28 (2 'C'W ' (8'
>6'--82 ' : '>

> 21-62 ' (12#7'
> (1- (12#7' (1'
> (- R 66 '9'
A'91' 4 -'R 66 '9'
A'(6-' I '8p(1'C
238' 6-' T
57-2 ' 'E'
A(20 5 ' (78'
:(1(?2'4 ' 'L

A(12'D 29 6 .
A(2662'G' I
4' 8-2'F6' 2' M2 662

1 7 6r'L'R'
427 802 8'F I'
4(7~~B2#02 32 '>'
4 6669'8'E28'9 8'
4-k76'G'L

4 =? &' `

4-'1' '4
T288'8-'F7' 621'
T288'8-'49 -71(8'
T7N8' <' '
T7(K 128'' 6K1'
T7(91(8'T7(9'1'
'8'#-' ('
' n 26 8'; '@'

R 26<(8'RC-2'
R28P 26' . ' I'
R 6~'-81(8'"' R'
R 16 528 1'
R 762 ' I 2< 57'
R(66'1-(8'R' '
R - ?''
X(8!' '921

$ / / 2 $ & ' + ' / $ + . ' $ % $ %

D422' '61(' -72' ' - 5621'(7'5(8- 21' ('1-'- 1- 51'('- '<2' 2-5 ' '61(' & ! / !

$ #

%
*

"0128-22 19'
"5- '
"< '6(29'
"< 2 - 12928-'
"< 52
"328- G282 '6
" <1
"66(-928-1' 28< 49 '66'
(6< 831'
"69'5 H1'
"67'32 (' " 68'32'
"8' 57 19'
"## 28- 5217 #'
" 0 - '- (8' '8<' F(8g
"5 6,'- (8'
-26
E'0 ' 9 83'
E'5726(' '
E'<32
E'6'852'('T '<2'
E2<6'9' (' E2-7627 29'
(1#-'6'
E22 1-2' 'F6 0'
E' 3'
E H8 ' E H -7' D('4(8p' ('
-7(' F(28'8-.' '=8<2g
#28<28-' ? <2 ' ('
E(' <83 (-'4 1-29'
E(8<'32 6'
E(8 1
E((22# 83
E(8-
E(12
E 2' 83'E 6 '
E ((' I ' 9'
E (1#1
E 6< 83'4(5 2- 21
E '6'4(5 2- 21
E - 2 32' 8<6 1'32
F' 9('
F281 1
?11
F7' - ''8<F7' - 21'
F6 0
E(6625- 19
F'90 8'-(8
F(9 92 52
F(9 92 5 '6 T 2'- 21
F(9 9 11(8' 2
F(9 9 8 19
F(85 0 8'32
F(81 9#- (8
F((6 2
F((#2 '32'('F(#2 '32'
F((#2' '- (8'
F((#2'K8(8

F(9' :' J1
F(N2
F 572
F (6-2
M29(3 '#7
M 1- 0 - (7
M((7'R' '8-
M J0'5
M 96<1' ?-<2' (
M 26
L 9 3 '- (8
L 9#6(2-4# : '0 6 - '
'8< R(928#1' F(9g
#281'- (8'
L83 (11 83'
L 328 (1'
LW5' 90 (8'
LW7 0 -,(8'
I '5-('' 5-1'
I ' ,'
I '9 82'
I ' 9
I ' 1' > 521'
I 2
2' 8<,I 2'LW- 85- (8'
I(6 6'8<'
I(21-'66 83'
I(8<6 83', (1# -'61'
I '8 83
I '- '9 - 21',F(66232'
I 229'1(8
I 22'>(-1'
I 22'T '<2'
I 28<6'4(5 2- 21'
G2(32' 9 ('A2# 06 5
+ :
GK<1
G ' 8'T '<2'
, ((6 3'8'
(1 83'
6K23 - 9'(
=9 9 3 '- (8'
=8-2 8'- (8'6'T72'
: - F' -' F6 0'
; '0('LW?7'832'
; '0(' ;23 16'- (8

C2 5'8- 62' "3285 21'
C2 5'8- 62'4 1-29'
CN-' '324 q-29'
C 3 '- (8'
C(8(#(6
@ '- (8'6'R(17(#1'
?<< 266(J1''? <2' ('
?6< "32' >281 (81'
?82<'F(9 9 8 - '
? J6 83

>' #2 19
>'J80 (83
>2(8'32
>7 16(('-6('457?(6
>((' ' J'
>(# 6'- (8
> 9'32'
> (< 5- (8'
(- 17' 83'
>,(62-' '- ' (' > (62-g
' '-2
> (1- - -(8
> (-25- (8'
A20'-(
A25 # '(5 -
A23 '-683
A(8<19'8'4 1-29
4'6 '32'F(#1
4'9#62
4'85- '
42 <(9
46' 2
49 336 83
4(5 '6'F(8-2'5-
4(5 '6 19
4(5 '6 42--62 928-1
4-'88' 21
4-'#62
4-'- 1- 51
4-'- -2' C2 57'8-' '8<
4-'- -2'4-'#62'
4-226 ' <' C2 57'8-1' ('
-72
4- 21''8<';(5 ? -1
4 01<
4 5<N
4 9#- ' 'A'J1'
4J2'- 83'4 1-29'
T'6 <'
T' 2'#<'T ?-'
-'
T22-(-'6 19
T -62' G ' '8-22' F(9 '
#' 21'
T '<2' ? 3'8 B'- (8'
T '<2'-68 (81'
T0'9#'
T 1-1
K829#6(928-
K1
(2 '8(
'6 2
9
66'32'F(99 8 - N1
6628V32
R '321
R2'6-7
(92#

42n 8
472 26
47266 9(82
47 66 83
4(8
4(2 2 38'D5(8.

1-'9#
4-'8'' <1'M2#' -928-'
4-2 K83'
4-(5 'LW57'832'
T'
T'W'-(8'
T 92'E' 3' 81

T(28'C(8('
T(88'32' 8'
T(8- 82'
T 1-'F(9#'8'
R 8<(J'T'W'
Y(66 2 28

$ $C ' ! E

4 =? &

I(-- 2 '8 + 1'
F7' 621'C' 2'
I ' L6 B'02-7
G ' ' 8'8' 8<1(8'
G'6'8'' I2<8'8<'(
'D ''-(8'4 ' I '85 1'
G'8 67'D#' 21'
G' 9 2 ' ?6N928-'(12#7'
G' 9 2 ' G2 9' 8' 9 ' '
n i
G28(21' -(, ('
G2(<2' ,28 '
G 28' 4 ' A(02 -'
G 60' -' 921'R 66 '#'
G (,'' C2657 (2'
G ' <4-2#728'
G(<8' 2'8' E'#-1-2'
"8< N
G(6<19 <'D '9 6 .'
G(9#2 1'4'98N6'
G(278' E' -7(6(g
92J
G(86<' ' 'DG2(32' '8<'
,2628.'
G 217'9'4 'T7(#''1'
G(86-9<' ' 2852'
G 82'D '9 6 .
G ' T7(9'1'
' <62' ," -7 'TJ 8 83'
' ' - 9 '8'L<J' < '
'Q-7' 128' " 3 1-'
I 8B' ; <J 3' C' ' '
I 2 72 ' (8'
,2 7 '88' I ' E' R ' 08'
, 66' ' 921'
, 66' ?(-' '' '8<' C '
, 8<' ('
, 66'4 'A(J6'8<'
, (6 (' 2 G2(32' '5(0'
, (82 ' I ' 85 1'
, (-?8'4?9 26M'8''
, (J' <' (78'
' <98'DG2(32'
' 26'8<'G(--K20'
=83 k9' ' '
' (0'; <J 3', 28 57'
(8
28 1' 2 2-8 '7R7 ##62'
2 (` R 66 '9' 4-'8g
62
(821'A 57' <
: ' (12#7'
: /2'
: '6883'4'8 826'
: '11' 62' I2<8'8'8<'
: ' ?62 2'E9 62' ; ' '<2'
: ' J' (78'
: 2'>6' >'G' I N<N 5'
: 2 (E2' 6 2 ' > 2 2'
: >'W'
:(1K2' T7(9'1' L<J' <
F6 2
:2 '412 '> 2 2'E9 62'
: 2 ' :2(82'
: 27 82(7'' R 67269'
: 8328'0' (8'
: 1- I 2< 57'
: 2 9 (2'C' '"17-(8'
DA 52.
C F K(57' (78' A'9g
1'
C'5 ' ' (78'R 66 '9'
C'562(<' ,28 ' M 88g
83
C'6-7 1'T7(9'1'A(02 -'
C' 17'66' "6 2<'
C' W' ,2 8 57' : ' 6'
C'-72J'T72(0'6<'
C' (496-7'A 579(8<'
C(5 --' I 2<' M' <'
C(8-2 (2' 4 ' C(121'
9
C(8- (8'0' (8'<2'
C((8'4 'A 57' <'
6(3'#' (78'> 2 #(8-

C(1-' (78'D (12#7.'
C(-- ' (2- 'DF(8.'
C 8' T7(9'1'
@2'62' L<J' < '81- '
@2J9' 57' R 66 '9'
@(-7'4 ' M <62 '
? 2 1-(82' 1-'0' (8'
? J28'A(02 -'
>'-26'' I ' 8 22' @'1' '
J'8 22
>'-2 1(8'R 66 '9'
>2'0(<' G2(32'
>28<2 ' 4 ' (78
28 7 8' P8<0' (8'
2- - '4 ' M 817'J'C'8'
52
>2-- '4 'R 66 ' 8'
> 8 2 -(8' "A'8'
> 52' E (8
> (<7(8' > 2 2' (12#7'
? 218' ' I '8p(1'
A' 2 128' I 2< 57'
R 67269
E' ' : ' 6' , 2 8 ?7'
A 5' <('M' <'
A(<02 - 1' : ' 6' (7'88'
A(32 1' '921' L<J 8'
T7((6<
A(1572 ' R 67269'G2(3'
I 2< 57'
A(-7157 6<'+ '9 6 *'
A(J-(8'0' (8'
4'<62' C 57'26'T7(9'1'
4' 8- 4 9(8'5(9-2'<2'
4' p'8'E'#- 1-2'
4' 'D 2'8'E'#- 1-2.';N(8'
4p7q 62'"' I'
4279(662 'G 1-' '
457 6B2 M26-B157'I' , '
426 39'8'L'A'"'
428 (@'11' 'R6 K'9'
47 #' G'8 662'
46'-2 ' (78'I(W
49 -7' "<' 8'
49 -7' G2(32' ('F('6g
662
49 -7'G2 -'
4-(' - '4 ' '921'M28'
' 9
4# 32' (12#7'
4 982 ' R 66 '9' G 'g
7'9
T' <2'G'0 26'
T' 11 3' I '8'R 66 '('
T7(8-(8' ,28
T7(8-(8' R K '9'
T7(9'1'
T((2'T7(9'1'
T(281'A(02 -'
T(281 R 66 '9'T(281'
C F 66'37'
T(8022' " 8(6<'
T 5 2' (1 '7'
T 2'D '9 6 .'
'8<2 0 6-' F(826 1'
D '9 6 .'
- 22 '8<'4' C'<7(J'
<'1
R'382 ' "<(6'
UR'6 2' I '85 1' "9'1'"
R'6 '1' C' 2 L1# -'
N(8
R' <' ;21-2' I '8 '
R'- 8" 4 L<J' <'
R 66 '9'
R' 37' E28 '9 8'
R 200'4 <82 '
R 2661'M' <"921'
R 66' <' I '8521' L6 B'g
02-7
R(6(J1 ' ;(1' I '8g
p(1'C 5726'A' 9(8<'
R 37-' F' (66 M' <g
1(8

$ $C ' $ ' B $C'

1 #

"55(8-
"55(8-'8-1
'
'6'
" 9(-B'- (8
"8326
"88'
"88 -
" 0 - '32
"11 38'-1
" <-''8<'" <-(
E'5 J' <'- (8
E'8 '@(-21
E'8 'A'-2
E'8 1' 8<'E'8 83
E' -2
E' J022
E2B'8-
E 66' (' LW57'832
E 92-'66 19
E(<62
E(12
E (2
E 5 2- 7(#
E <32-
E 67(8
E' 83' 8
F'66
F'# -'6
F' 83 (2
F'17
F72n 2'('F725

F 5 6' '@(-2'
F62' 83', ?812'
F(8'
F(81(61'
F(8-'83(

(#?8
F(2
F 2<-
F N<-' I (85 2'
F (2
F (J# D5(8.'
F 1-(9'M 21'
F81-(8' ,(12'
M25 9'6'F(8'32'
M29(82-B'-(8'
M 92'
M 15(8-'
M <28<'
M(66' 'D5(8.'
M 5'-
L836 17' I 8'852
LW57'832
LW572n 2
LW5 12
I' -7 83
I6(8
I 85'D5(9.
I - 21
G'02662
G 2280'5 1
G 217'9#1' ; 'J
G (' -'
G 82'

=85(92'T'W'
=81 '852'
8 (52'
;
; 2--2 '?'F 2<-
;
;6(<#1
C 83 #'> 52
C'
C' 2-
C 8-
C(7
C(<(2
C(82-# ' F(8 2 28521'
D=8-2 8'- (8'6.'
C(82
C(82 628< 83
C(-(9
@ - (8'6'M20-
?5- (
>'
>2 9
>212-'
> 5' 82
> 1-(62
#(66 -'W
>(8<
> 29 9
> W
A2 28 2
A('6-
A #22
4' 831'E'8 1'
42 38 ('32

.K F " T=? @Z

. $ + ' /

D422' '61(' -72' 2< 5'- (8 '6 125- (81' 66' -72' ' - 5621' -' #' - 5 6' '5(7- 21' ' '61(' ' - 5621' (8' -(J81.

% 6

"5'<2 9 21
"<(62152852
E'5726(
E' 83 ? -
E'--26
E2 '8
E6 8<8211
E 8' C ' J ' F(66232'
E 1'
F'6 (8 '' K8 2 1 - ' ('
F7 5'3(' K8 2 1 - ' ('
F7 6<
F7 1- 1' , (1# - '6'
F6'11 51'
F(2< 5'- (8'
F(66232
F(6 90 '' K8 2 1 -
F(8266 K8 2 1 -
M' -9 (-7' F(66232
M2' ' 8< M 90
M(5-(
L85'28 '
LW' 9 8'- (81

"<62 ' I 26 W'
"65(-- ' " 9 (1' E (81(8'
" 91- (83' 4' 9 26'
F7 '#9 '8'
" 8(6<' T7(9 '1'
"1(7' 9 'A(32 '
"11' (-- ' ?--' ('G ' E

I '33 83
I 266(J
G' <
G ' <- '-2
G 9 8 '1- 51' '8<' G 9 g
8 '1 9
, ' ' <' K8 2 1 - '
; (8' 5'
, (1-26
=8< 1- '6 457((6'
=8 '8-' 457((61'
(781' , ' (# 81' K8 g
2 1 - ' ,
: 8<2 3' -28'
; 26' 8<' 4-' 8 (<'
K8 2 1 - '
; (J 266 =81- - -2'
: 52 9'
C '1-2
C 57 3' 8' K8 2 1 - '$'
C (8-' ,(6 (2' F(66232'
C 817 ,' (' C((817'
C 12 91 (' 45 2852'
>2<'3(3 2

"1-266 ' C '
E' 8' <' I 2<2 , 5 ' '" ' >'
E' 8' <' , 28
E' <' <(' T7(9 '1' '
E'15(9 ' (78'
E'12<(J' (7'88' E(8 '
7' <

>2881 6 ' K ' K8 2 g
1 - '(
>(6 -2(78-('
> 252#-(
> 852-(8' K8 2 1 -
6 (5-(
6 (211(
A2 (9 '-(' 457((6
A212' 57
457((61
429 8'
4 B'
49 -7' F 66| 2'
49 -71(8 '8'=81- - -(8'
4(#7(9 (2'
4(0(882
T2578 5'6' L < 5 '- (8
T 21-' 9
T -(
K8 2 1 - 21'
'11' 'F(K2#2' @ T '
3 8 '' K8 2 1 - ' ('
R 15(81 8' K8 2 1 - '('
X'62' K86 - -

E2'62' M((-6 2''
E266 ''62W' 8<2 ' C 26 662'
E6' ' 921'
E(< 57(8 'E' 0' '' ; 2 37'
4 9 -7'
E '52' 86 -'
E ' <J ?(<' T7(9 '1

4 =? &

E <39 '8' ; k ''M2 J 2 '
E 11(8' I 2 < 8 ' 8<'
E 10 ' A 57' <'
E 11' I ' 8521' C ' '
E -62 ' @ 2726 ' 1' C ' '
G' 81' (78'
F' 9#' 8' 22-772' ; ' ,'
F' 9#2' ('88-9'' , 2 8g
57
F' #28-2 ' C ' '
F6(37' '" 882' 2 869 ''
F(62' 4 ' , 28
F(928 1' (7'88' " 9 (1'
? 9#' 2' 8 21' G' 0 26'
F((#2 ' A28 '1'
F(##N2' , 28 '
F(<2 81
F '8<' 66' > <2852'
M2 J2 ' C2 6'
M 21-2 J 3' A' " ' R '
M W' M((-72'' ; '
L6 (-' F7 ' 62N R 66 ' 9'
L#N2 K C ' -00N <2' W'
I '0 '8 '4]-N 68('
I ' 9 '0 ' (' I ' 9 '0 2 '
T7(9 '1
I 2662802 3' > ' L ' (8'
I -57 '4 ' (17--'' G 6 83'
I (2726 ' I 2< 57' R 6g
7269 " 3 1-'
G' 66' <2-' T '=
G 6 9 '8' M' , R' F(6-'
G ' <' 2' 7' E' #- 1-2

G(88 2 ' L<9 8<'
G' 8' , 2 8 57'
G '8-' 4 ' "62W' 8<2 ' '
G -4 C -71' (7' 88' F
Z
' 9 6-(8' ' 921'
, k 8211' " 602 -'
, ' 1' R K ' 9' T(2 '
, kJ- 2 L<J ' <
F ' 28
, 1=86F 2' 4' 9 26'
' 2 (-' G2(32'
' (J 2' 4' 9 26' G <62 '
' , 692' R 66 ' 9'
' 2(-(-' (12#7
'78' I 2< 57' : <J 3'
(R2--' E28 ' 9 8'
L' 47 --62 J(-7' 4 '
>
: 2'-2' (78'
: 2?#' A(02 -' >(-2 '
L2662 ' , 2628' "<' 94'
; '8231-2 ' (12#7
; -(2' G2(32' C
; 6 2' (' 6 ' R 66 ' 9'
; 1-'' (" ' 3(8' "
; (J ' 42-7
; vR266 ' "00(--' ; ' J 2882'
: (8' C ' C ' 1(8'
C' 839 '66' A 57 9 '6
C' 88' , (' 52'
J0 6 1'' > #6K 1'
? J28' 4 ' , 37

? J281' , (78'
>' 8' G2(32' A(02 -'
>2' 0(< ' L6 B' 02-7 >'
>N(' -' I 26 W'
>2 2 2' G '5(002' A(< g
3 2B
>21-''6(BB ' (7'88' , 2 8g
57
A'6 21' A(02 -'
A'- 2' (' A'-57 1'
R (6 3' 83'
A(32 1' R 66 ' 9'
457 9' 88 ''5(0' G(6<'
42 9 (' T7(9 '1 M' '
47 2 ' L9 6 ' "882'
L6 B'
4 5' <' A((7 " 90 (12
F
46'<2' I 26 W'
48266' (78'
4 --(8' 4 ' A 57' <'
4 J' 8 J (' "88"
T7 83' L<J ' <'
T (8(' G2(32'
T (-B28<(-' '628- 8
I
R '17 83-(8' E((2 'T'
R' 8 62-2' R 66 ' 9'
R 7 -2' "8< 2J' M 5 1(8'
R 7 -2' T7(9 '1'
R K1(8' R((< (J'
R((612 ' T72(<(2'
M J 37-

! % % !

DI ('2625- 5'6' 283 822 83' 122' 8<2 ' > , X1 F1.

$ # 4C4 4" 4$' ; E

% " ## "

"0 '1 (8
"< -' 32
"<B2
" 283 82
"8 6
"n 2< 5-
" 57 92<21' 45 2J' ('
" -21 ' 8' R2K1'
"832'
" -(56' 2'
" J 6'
"W2'
"W62
E' 2 #1' 9 66
E2' 831
E266(J 1' '8<' E6(J 83
C '57 821
E(62
E '<' J 6
E 2' J' -2
E <321
E 17
F' 11(8
F'62<(8 '8' F '8'6
F'8'6
F'8- 62 2
F'17 A23 1-2
F' 12 J'
F7' 8
F7 126
F7 (8(3 '#7
F6(5
(2 <' 9
F(8 2 (1
F(# 83' C '57 821
F '821
F '8
M21- 5-(1
M 2 1' '8<' M 83' "#g
#' '- 1

6 "

"<(02
E 5
E 5 J (
F' #28-
F2 928-
F(85 2-2
F 1-'6 >'6'5(
M 'A(-
I 20 5
I(9<'- (81

"2 (8' -51
"-9 (1#72 5' A' 6J'
E'66((8
E' (572
E'-7 57'
E2 6 8
E 5 562
E(3 2
E' 2
E -B1 '

M(#
M 2<32' '8<' M 2<3 83'
M 8' 9 (92-2 '
L62 '-? 1' ; -1' ('
(1-1
L 90' 7 928-
L83 #2
I 24(0
I A2
I 6-2
I 5- (8
I 26
G' 1' 9 82'
G' 32' ('G' 32'
G 9 62-'
G(32
' 9 92
' ' 00
' ' ##(
' '-572-
' (12' >(J 2
' (12 # #2
' < ' 6 51
=8 22-(
= 3' - (8
2--
(9-1
: 8 2
: ' <<2
: ' 9 #
: ' -72
: (5
: 782' 8-1
: 0 5'- (8
C '85721-2 ' 47 #' F '8' 6
C 66
? 6 L83 92
>' 8' 9 '' F '8' 6
>' 6626' C (- (8
>2<(92-2
> 2
> 1-(8

B # $

G6' B 83
' 2 ' -93
(92
(1-
. ' -7
C '1(8
C(-'
C(- 12' (' C (- 52
>' 8-2 J (
>6' 1-2 J (
A' -2
A' 8<(9

E (737' 9
E 33
F' 0
F'
F' ' '8
F' ' ' 812 '
F' ' 26' (F' 26
F' 32
F' -
F7' 12

>8K2
> 9#
A256' 9 '-60K' (' ; ' 8<'
A2 32 ' - 73' ' 8<' =52g
9 ' 83
A 2 ' L 8#822 83'
A 2-'
A('<1' ' 8<' 4- 22-1
4 ' J
45 11(1
45 2 J
42 J 2 ' 32
42 J 83' C -F7 821
47 ' <((
472' 1#
47(26
47 --62
4 2 2
4 38 '6
4 #7(8' (' 4 #7(8
4622#2
4 9 (2
4#' <2
4-2' 9 L ' 3 72
4- 283 ' n- C ' -2 '61
4 28' F ' 8' 6
4 832
T(831
T((6
T 02
T 8826
TJ 22B2 1
T #2J 6-2#
'6 2
(- 83' C '57 821
R' 815(-
R ' -57
R ' -2 ' C (-(1'
Rj ' -2 ' 4 ##6 '
R 2
R 2K'
R 8<9 66

A((1
4' 21' 4- (83 ((9 1' ' 8<'
' 6-1
45' (6<' 4Fn -(6< 83
45' 8-6 83
47(83
4-226F(#' - (-6(E
4-(82
4-(2
4- 55(
T 902
28- 6'- (8

F7' k 0' K5
F('57
F(#N
F (62
M (17
I 6 37-' ' 8<' I 6 83'
' 8- 83 ?' '
. --2
C (-(1' L625- 5'
C (-(' 27 2 21

>'6' 8n 8
>' '57 -2
>828 9 ' - <M21#' -57'
A' 6J' 1

42<' 8 57' '
462 37' 462< (' 462<3
T 2
T '5- (8

T '9 J'
T 5 562
R '3(8' (' R '33(8

*0 "

"857(
E'66' 1-
E' 32
E26'
E2 -7
E 22
E 88' 562
E(-
E(J6 82
E 980('-
E (
E 322
F' O62
F' 0(-' 32
F' n 2
F' 8(2
F' #1-' 8
F'-' 9 ' 8
F62'-
F(O62
F('562' DF(--36.
M' 7' 72' 7
M7(J

4 "'
4 # 6 "

"66(1
"882' 6 83' , ' <28 83'
'8< T2 9#2' 83'
"8-7 '5 -2'
E'8 2-'
E <<2 '
E6' 1- 83'
E6((9'
E(83'
E' 11
E 'B 83' 7< 4(6<2 83
E (8B2
E (8B 83
F('6

? J28' 1' (78'
>' 8' G2(32' A(02 -'
>2' 0(< ' L6 B' 02-7 >'
>N(' -' I 26 W'
>2 2 2' G '5(002' A(< g
3 2B
>21-''6(BB ' (7'88' , 2 8g
57
A'6 21' A(02 -'
A'- 2' (' A'-57 1'
R (6 3' 83'
A(32 1' R 66 ' 9'
457 9' 88 ''5(0' G(6<'
42 9 (' T7(9 '1 M' '
47 2 ' L9 6 ' "882'
L6 B'
4 5' <' A((7 " 90 (12
F
46'<2' I 26 W'
48266' (78'
4 --(8' 4 ' A 57' <'
4 J' 8 J (' "88"
T7 83' L<J ' <'
T (8(' G2(32'
T (-B28<(-' '628- 8
I
R '17 83-(8' E((2 'T'
R' 8 62-2' R 66 ' 9'
R 7 -2' "8< 2J' M 5 1(8'
R 7 -2' T7(9 '1'
R K1(8' R((< (J'
R((612 ' T72(<(2'
M J 37-

42<' 8 57' '
462 37' 462< (' 462<3
T 2
T '5- (8

T '9 J'
T 5 562
R '3(8' (' R '33(8

? == $

0 837 ' < 832 '
I 26 pp' '
G6 90' 6

, (6 1-(82
8
L q '(' K' '
: ? ?6
; (-228
' 2 0(-' ' 8<6 2 1' 83'
' 12 52'
; 37-7(12
: (3
C6 9-
@< 2'- (8
?
6 (-
> 78' 52
> (3 2 ('> '3 '
>(6' 55'
>((#
> ' 9
> ('
> 8-

O ' -2 <25
O '
A' 8<(9
A 33 83
A(J 6(5
A <<2
4' 6
4' 656(-7
4' 9 #' 8
457((82
42' 9 ' 817 #
429 '#7(2
47 #
47 #7 96< 83
46((#
49 '5 '
4-' 0(' <'
4-2' 917 #' ; 821'
T(88' 32
T 8 - ' , (12' F(#('g
- (8' ('
T 09 2'
R 7'
X' J 6

$ $Z ' $ ' " ##B '

>' 9 312289 3' (' M' 9 'g
1 228 83
M' 9 '1 ' 4-226' (' M' g
9 '15 1' 4-226'
L62(- 9

I-R3 E3
I (11 5
6 <683

I 8' 52'
I 1 062 C2-' 6
G' 6 ' 8 B2< = (8'
G2 8' 8' 4 6 2 ' (' @ 5 26'
46 2'
83(-

=8 '
= (8' ' 8<' 4-226'
L 68'
. ' --28'
C2-' 6
C2-' 66(3 '#7
? 2 < 211-(3
>2 J-2
O ' 83
A(K 93 RK
4' 2- 6' 9#
47' - 1 8 83
4(6<2
T 9 #6' -2' '8<' T292'
#' -2'
R 26< 83

E 37-' 4 ' F7' 621'
E 8<62 ' ' 921'
E (J8' 4 ' (78'
E 82 '=' L
E 82 ' 4 ' C ' 5'
E 81' 4 ' G2(32' 0' -'
F' 9 1' I ' <21'
F' 823 2' "8< 2J'
F' -J 37-' L<9 8<'
#' K-62 ' 4 ' > (7 '
T7(8- 1'
F7' ##2' F6' <2'
F7 00' F7' 621'
F6' (1 7' ; '- 92 '
F(5 2 ,' R ' ' .

F(83 2 2' 4 ' R 66 ' 9'
7' -
F((<2' 4 ' (78 '
F(9 93' L '1- 1'
? (WJ 266' , 28 ' T '52 '
F ' 9#' F9' 621' 28 '
F (9#-(8' 4' 9 26'
F 7 -- ' T7(9 '1'
F 0 - ' 4 ' RK=6' 9'
F 8' V' 4 ' 4' 9 26'
F 2' 4 ' M(8' 6<'
M 9 9(8< ' T7(9 '1'
M # ' <2' ; Q 92' 4' $'
' '
L'<1' k 92' ' E 57' 8' 8

" !%!, ʻ "! ʻ %ʻ ! ", ¨GL?GA">,¤

4 V 9? Eʻ; !ME

E (3 ' p1' E

L<1(8'T (8*-(" - ''
L 511(8' (78'
L '81' ?6 (''
I' 0' 9'4 ' R 66 ' 9'
I2 3 1(8' ' 921'
I 86' '4 'G2(32'
I -7' C' '
I -57' (78' '
I(J62 '46' (77'
I(J62 ' (78'
I 6-(8'L(02 -'
G'-6 83'A 57' <' (<'8

G ' <' I7K ##2' , 28 '
<2
G((57'4 -'M'8 26'7' -'
G((< 2' ' F7' 621'
G 2'-72'<' ' 921' , 28 '
G 69-7(#2' \1-E' (8'
' 1(7' (78'
' ' -62' 4 ' F7' 621'
'" 3 1- 1
, 'J 174 R'4 ' (78'
' J 162 ' T7(9 '1'
; 2 -75(' - ' (78'
, (<3 81(8'L'-(8

, (6<'8'4 '=1''5'0' -'
=19' I' T7(9'1' 28 '
'(5 m'-#<' (12#7 C' 2'
8 68' ' F' I'
: 833 (<' R
: ##' "6 2<'
: 892 x' R 66 '9'
C("<' 8' (78' ; (<(8'
C5F#88 (' F 1' ' 66
C' n '8<' , 28 'G'
C'17' 9'0' ,(8'
C'W78' 4 ' ' '9

C <(5 ' R 66 ' 9'
C <<26-(8'4 ' , >:7'
@'19 -7' '921'
@2J5(928'T7(9'1'
@ W(8' (78'
@(062' 4 ' "8< 2J'
>'692 ' 4 ' F7' 621'
C'
>2 81' '5(0'
>(62' R 66 ' 9' '
> (8 'G'F' I ' C 'E ' <'
A 8 82' R ' C
A' J6 81(8'4-' A(02 -

E(< 4 'A- - '
A288 2' (78'
A(206 83' ,"
457 57' ' || <7 '8<
42## 831'4 'A# J -'
4 29281' 4 ' R<7 ' 9'
D: ' 6' R 67 78.'
492'-(8' (7#
4-' 62' ' 921'
4-2#7281(8'G<(32'
4-2#7281(8-L>02 -'
4-2 281(8', ?T2 -

4- - --', 2<-2< '7'
T'83 2' 4 -' A 57' <'
T26 (<' T7<9 '1'
T7(9 '1'4 <72 'G 657 1-'
T 2<3(6<' T7(9 '1'
T 2 -7 5 A 57' <'
R '--' ' 921'
R 7 -2 ' 4 ' R 66 ' 9' , '
R 7 -82 ' LK'
R 7 -J(-7' 4 ' (12#7'
0' -
R 6 81(8' (78

| % / ! + * K

" $ # B # "&' $ ʻ "4 =?'

e# ", 0 ' ' '
4

"8-' 5- 5
"8-#(<21
" 5- 5
E2857 9'
E - 17' L 9 # 2
F7' -
F(8-(' F(7-(= 82

"8-6 '
"8-(8 8'=- 82 ' 9
"n '2
"-6'8- 1

L' -7' 3# 2'('-72
G2(<21
G2(<
G 2'-' F 562'
, '(7 2

=1(56 84'!=821'
=1(< 8'n 5' ; 821'
=1(3(8 2' ; 821'
;'- - <2

E 'B 6 + 16.
L6 M(' <('
G (9 '- 5'
=1621' ('-72' E621-

;(83 - <2
;(W(< (92
C2- < '#

T72(<(6 -2
T(#(3 ' #7
R (6<
Y(8?

=- 82 ' 9
?#7
T7 62

?'& C # "B &' $ ʻ C $4 =?'

" 3 662
"6#
" 57 #26'3(
" r-2
" T((
" -(66
" '6'8572
E'7
E'
E' (
E2'57
E2 31(7 8<
E2 9
E 37-
E(3
E(2
E(82
E --2
F'8 (8
F7'662832'j LW#2< '
-(8
F n 2
F('1-
F(6

F(902
F(8- 828-
F(8- 828-'6 4726
F('6 22 1
F(< 662 '
F(2
F '3
F 22
F 2 '112
F 21-'
M'662
M26-'
M212 -
M #
M <2
M(83'
A ('
L'3 2
L' -7' > K'
L1 2
L1- '
I 266
I (<
I 6(2

I 6((<'>6' 8'
G '#-#1' : 2--62
G6'5 2
G (8<' =52
G8 6' 4- 2#9
, -
, (1-
, 9 9 (5
, < (1#72 2
=5202 3
=16'#<
=1-79 1
20r6
#8362
: u 9 2
: ?' 4 J (
; '3((8
; 2
; 2 N2
: -7(u#72 2
: (J6'8<
C' 2 n- (9
C ' <28
C ' 17

?'& C # "B &' $4 =?'; E

C'11
C21'
C(8'<8(5
C((
C(' 82
C(6 8
C(8-' 8
@N N
@ 66'7
@ 8'-'
@ '8B'
?'1 1
?52'8' '8< ?52J (
3 '#7
? (3 '#7

>28 81 6'
>6' -2'
>6' 8
>6'
>(6<2
>(8<
>' 2
O '39 2
6 8<
A'1
A22
A 2
4'726
4' 3'11(' 42'

4' '88'
42'
42 572
4(8< 83
4-2##2
4 <<
4J'66(J 7062
T' 8
T7'6J23
T 8<'
(65'8(
R '<
R '-2 '66
R '-2 172<

" 4 4#4 '

4 # # "
(# ' ("

" -2 36(J
"829(92-2
"8-726(8
"8-5 56(82
"-9(1#72 2
" ('' >(6' 1
E2' (-'45'62
E6 BB' <
E(
E 22B2
E 5 26<2
E (5 28'4#25- 2'('-72
E 1 E'66(-#1' ; 'J
F7 8((
F6(<
F6(<0 1-
F 56(82
M'J8
M2J
M(6< 91
M 1-
L-21 '8' R 8<

L (56 <(8
I2 26#1' ; 'J
I(3
IS78
I (1-
, '6
, '6(
, ' 9'--'8
, 269' R 8<
, (12' ; '- - <2
, 5'82
, 3 (92-2
=1'08(9'6 D(' =1'8(9
'6(1.' ; 821
=1(0'
=1(-72 9
: 7'918
; 21-2
; 2 2(72
: 37-8 83
C'21- (
C ''32
C 1- '6
C(81((8
@(-72'

>' 9#2 (
, 8
A' 80(J
A(' 83 I(- 21
4- L69(#1' I 2
4 9((9
4 (55(
4622-
48(J
48(J 6 82
4n '66
4-(9
4 917 82
4 32
T7 8<2
T 902 6 82
TJ 6 7-
T(9'<2
T' <2
T #7((8
17'#2<' M2# 211 (8
R'-2 4#(7-
R2'-72
R2<32
R 8<

ʻ d W EF 1%. Lo%*

"38'8(
E'6'-(8
E 2882
E 28B
F7 29122
F(9(
F(81-'852
I 58(
I~1' (
G' <'
G282 '

=12('
: 8 31q22'
; ' '572' 422'
; ' <(3''
; 52 82'
'. 3'8(
C'33,(2'
C'6' ,
@2 57q-26'
?823'

? -#'
>2 ##g'
T23| 7122'
T7<8'
T '46-,(2 2'
T282
2--2 P'
R ' 27122'
Y 3' '
B~ 2-

H &'

M'8 02
M8 2#2
M8 21-2
M(8
M(<(382
M(01
M((
M ' 2
M 2J28B
M '852
M 8'
LO (
L <2
L602
L61-2
L6-B
L91
G' (882
G(-'
G '<'6n
G '< '8'

=662
=88
=1'
=1| 2
5'

: 0'8
: '78
; 257
; 68-7
;
; ##2
; (2
; (-
C' 8
C'8 57
C' 82
C2926
C2 12
C(126
C 6<2
@'72
@25 '
@2 112
@2-B2
@2 '
?0 '
?<2
? 12
>257(,'
>215' '
>(
A238 -B

A7 82
A7(82
A 7
4''62
4''
4' 82
4' 2
45726<-
423 '
42 82
429(1
4# 22
T'3 1
T' 9
T2 2
T72 11
T 02
T 5 8(
T ' 2
2882
1- 6'
(63'
(6- 8(
R' -72
R212
R ##2

4B=" $&

"60 6''>'11'
"6#1
"6# ' '1' T72'
"#288 821'
"1# (9(8-2'
"-7(1
E6'5 ' I(21-'
E6'85' C(8-'
E 2882 ' >'11'
E (5 28
E 11'5(' 42 '' <2'
F'8-'0 '8' C(8-' 81'
F' #'-7 '8' C(8-' 81'
FN 28821'
M2 1-2
M(6(9 -21' T72'
L B320 32'
L-8'
> 57-2632O 32
G' 3'8(' C(8-2
G2 9 9 '>'11'
G '8'4'11(<#=-'6 '

, ' <-' 72'
, ' B
(- 8726 9
83 '
: 67g 12 '
: (-1(72-' I,'11'
C '--2 7(7'
C(8-' ?86p'
C(8-2'4'8'G 6 '8('
C(8-2' 6- 2'
C(8-'G28| s2'
C(8-12 '-
@ 2<2 R'6<'
?<2 J'6<'
? -2 '
>' 8(8'
>68< 1
> 28221
A21(728' 4572 <25
D#'11.
A7(8320 32

A62128327 32'
A(1' ' C(8-2
4-' E2 8' <'>'1121'
4-' G(--7' <'>'11'
457822 (##2'
429 92 83'>'11'
47 # 7'>'11'
46|02-(320 32'
4 2 ' C(28' ' T72'
4 2 ' 2 <' ' T72'
4 9#628'>'11'
4#6#328'>'11'
4 K-278''
T'-
T' #K1'
T' 32-~1'
T2 -(0 32 ' R '6<

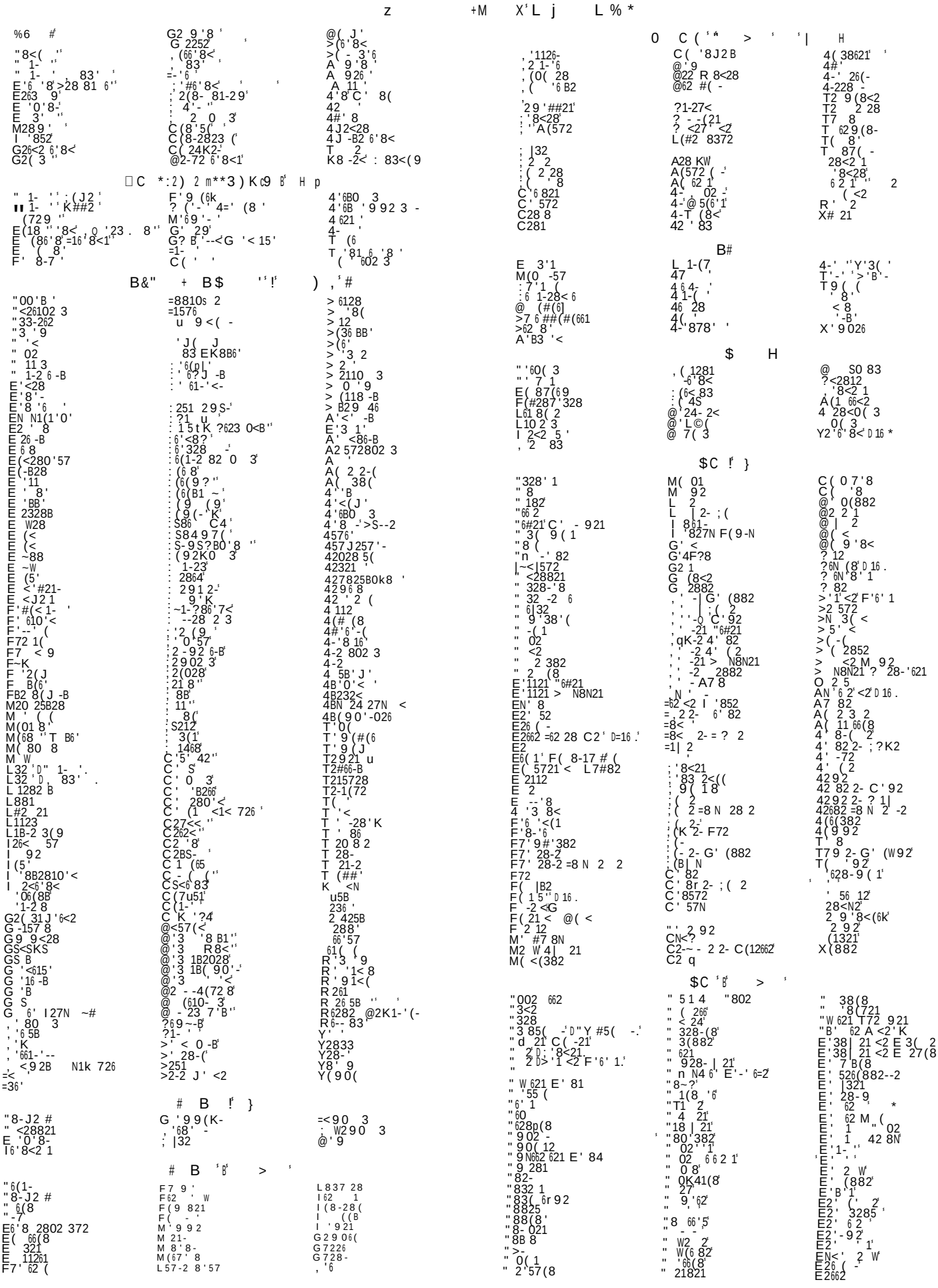
"60 2 '' <2 ' n82 ''
D6'3((8.
" 1(-'D (21-.
" -' G 6'(.
E(5'32'D9((; -.'
E(1#(91'D1- -.'
E '-6'8<1<'6'D '662 .'
F'9' 3 2'D 23 (8.'
F' 1121' D#6'-2' 1.
F ' 'D 23 (8.'
M' <'82662 1'D1- ' -.'
M(9021'D#6'-2' .'

M 8<2 6'8<1<'6'DT'662 .'
L 26'D 23 (8.'
I '8 28J'6<'D#6'-2' .'
I 15721' '6'D6'3((8.'
G.<0 ' <1<'6'D '662 .'
,' <'832' I (<'
'<2'DO' .
: ' 1-'D 23 (8.
: 15721' '6'D6'3((8.'
; '8<21'D 23 (8.'
; ~820 32' ; 2 <2D9((.'
C' 29 9''D9' 1721.

@' 62--2'D-' 2.'
@(< (<
@(-7' F'#2'D@(< '#.'
>(9#-82' C' 1721'
A(91<'6'D 'K2 .'
4'2-2 1<'6'D '662 .'
4'8<2-(<'
4(382' I (<
4(8<' T72'D1- ' -.'
4# 22J'6<'D (21-.'
Y <2 'Y22

N % / ! + * %

z +M X'L j L % *



0 C ('* > ' '| H

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$C ! }

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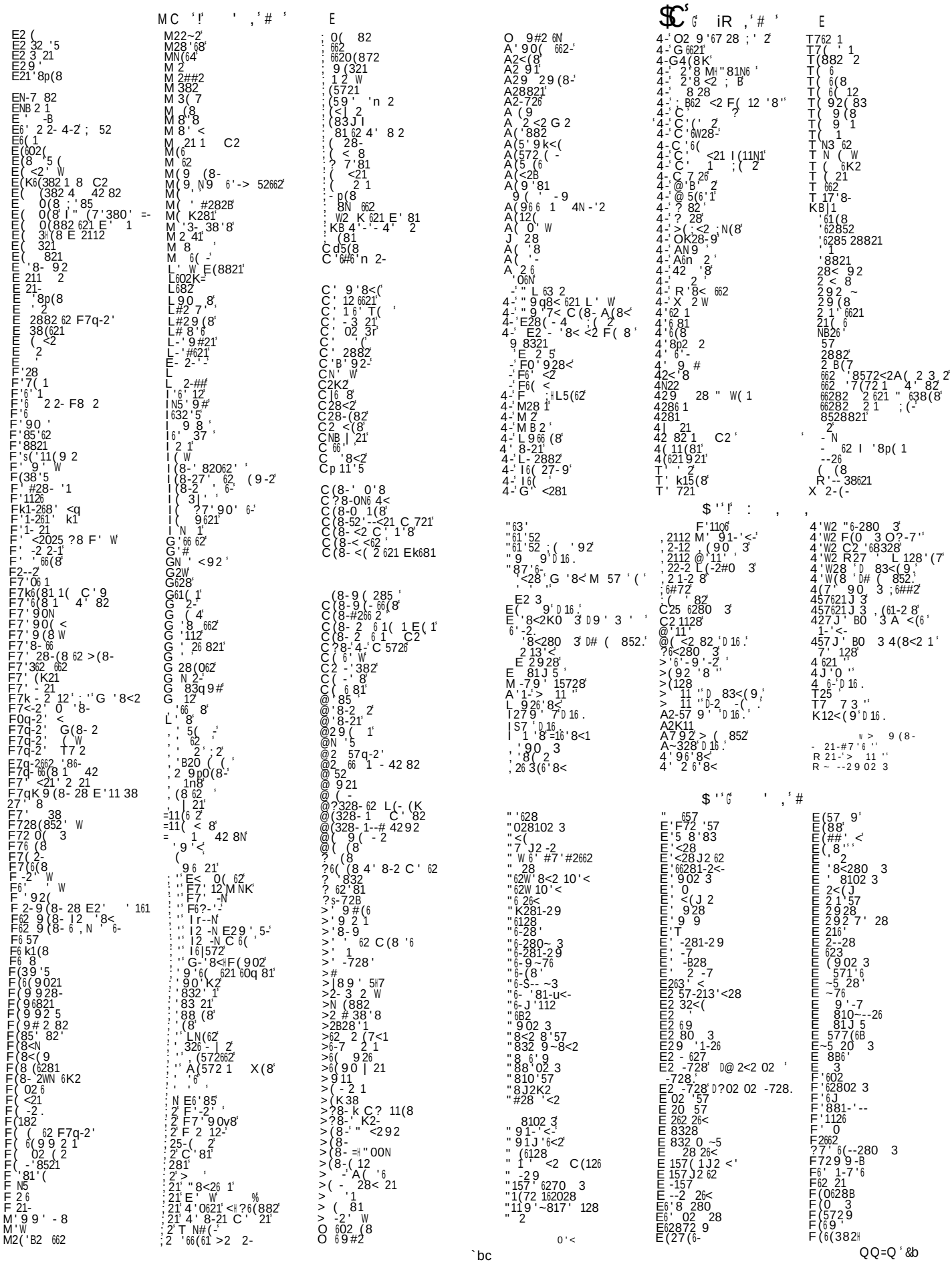
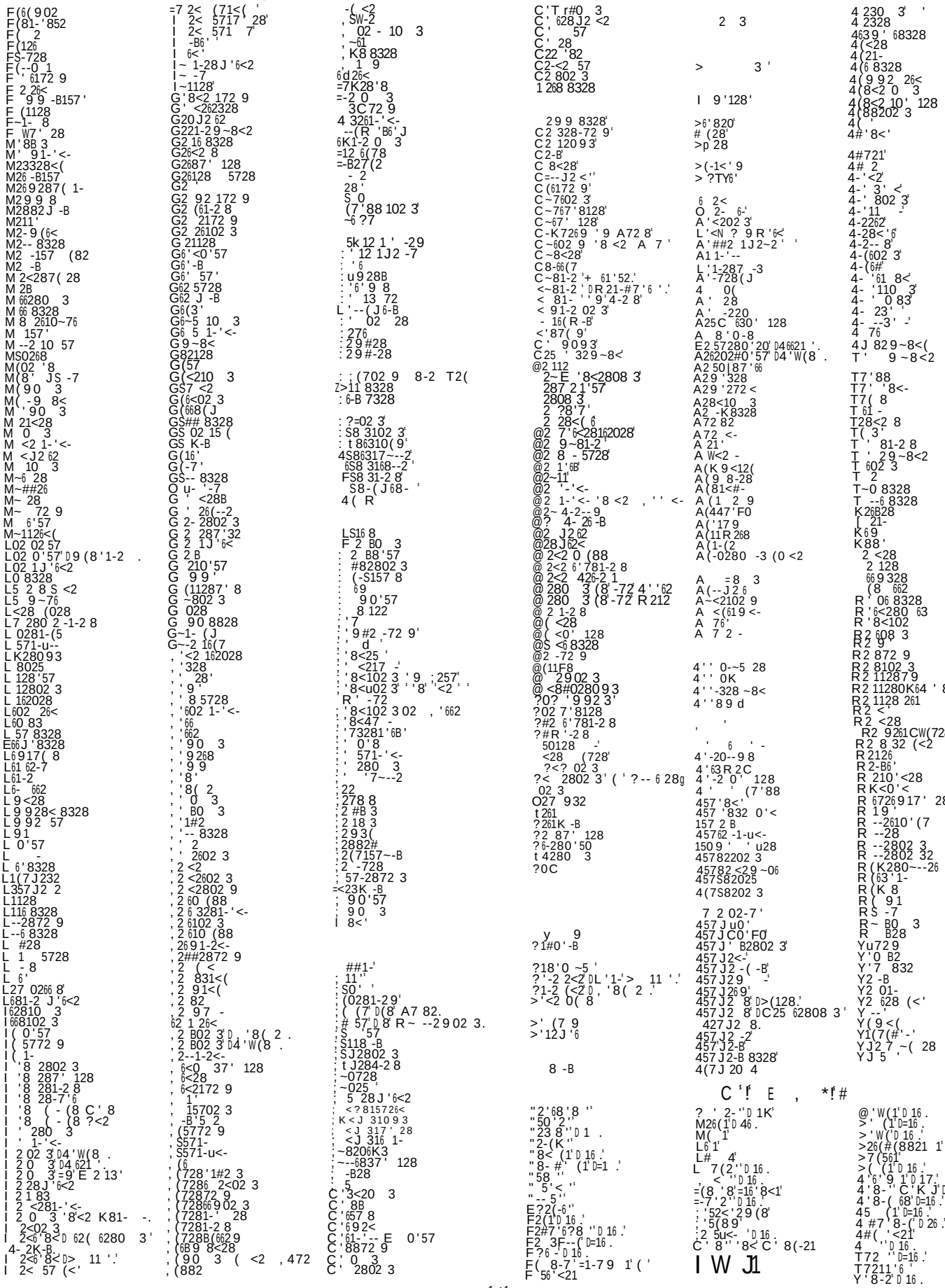
(b (m R m%*'; E

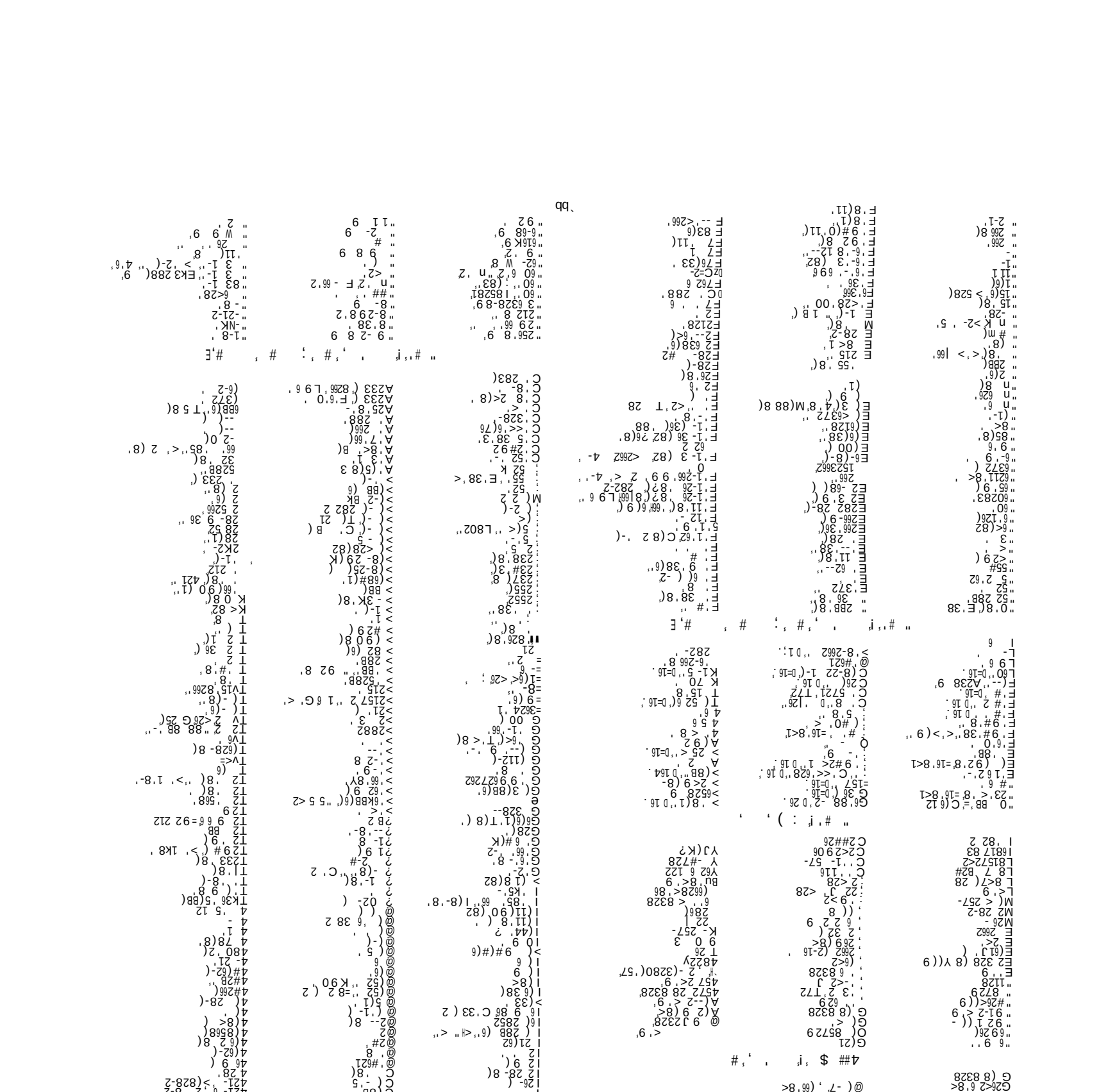


`bc QQ=Q'&b

y0+3:)4;23

$ 8 (bR o %*'; E





GL?GA" > , XZ

N % / u ' + * %

} ? H J N ~ d b8 I 9 > ; E

"3"# ' G E'6N, E62 ' E(8(8 ' E(T6'8'9 E(66'2 E '#<616 9 F'25K '' F'26 ' F'2 2 F' '- ' ?' 2-'2 >(-6 1 F' '- ' G'621 F'9 ' 66' F'88'2 F'8 1 68 F'#28' F'# ' F' k621 F' 4 (6 F' 1 6'2 F'1668 9 F'18 9 F'11 ' ' F'1- 8'C 82 ' F'-'8B' (F'86(8 F6'1-<6 F6(< ' ' F68116 9 F(66'- ' F(6#1' F(68 9 F((6 F(9K1' F(1' F'(-(8' F 1- 92 9 F 9'2 F # '' F 21 L83 (8 I'21 6'2 I'6# I'62 (I'8 9' (- 8'2 I2 28- 9 I21(2886' I <28'2 I6'9 8 ' ' I(9' "## I(98' 26(< 6 I(9'T ' '86 I 23266'2 I 63 8 '2 G'0 6

G26' G8'- ' G 928-(9 , '< 6' , ' '21' , '69 6-6 9 , 21'(62' , 2 5 '2829 8 , 8 2 ' , 1926 8 8 , E6' =8< 1- =8-2 '9- '' ; ''280'' A'0 5'8'' ; '06(6' ; '86 ; '- 8' ' ''' ; ' 28- 8' ' '' ; ' 8 8' ; 2(-- 86 ; 3 21'E'20 '8 ; -2 8 -- ; (5 ; (--8 ; 5 1'I2 (86'2 ; 8' C' 6< ' C' 9 C' B'0?--(C2< (6'8 9 C 2 ''A 06'2' C2-'#(8- 8 C2 '8' C 8- 8'2 C 128, 9 C2- @'W(1 @(#28-'8'' ' @@(8,2 -6 9 @@('' @2 0' @ 52 '' "6 '-29' ?5 (6 9 ?60 ' ?1-' (1- ' >'21- 8 >'-' 9 >26- 8 9 >1' 98' >(6628 ' >(9#2 ' >(#K >(#K6(86K9 I(1

>(1- 9 '' '' > '2821-2' > '2821--8' ' '' > -2(K' > A2 9 A6(#' A 266'8 4'2#68 9 4'K 6' ' 4'14 8' 4'- (8 4'- 8 ' 4 21- / $?: 428K 1 428-8 -8 42 '' 42 2 '8'' ' 4 , 4(8- -8 4-'O6'2 4 241 9 4 626 4 28- 9 4 0' 1 T' 28- 68 TK n 68 6 T2'K 9'"#K6 9 T2'-2'C' 2 8(- 9 T2621 6' T7'#1 1 T7' (1 T7 4 T 0K T60K - 8'' ' T 2 K886 T 20 6' T 21'T'02 9'2 T - 1' ;60 1#8 1 T 25'8' T 12 = K8 T 8< J K 01'4'6 '' -T1266 1' '62 '' ' ' 2 6 2626' 26 28' 8 -- 28- 1' 2- 6(8 98 (6 2 (-v (61 8

I '6- 5728 >#?17'86 G'6'-B G86 32 (-76 , ''41 C'83'66', C(6<' @2' 9-

?6-28 -B' > '- '

>6(2156 AV98 5K' 4' '- Ak9865K -6(2'' A(9'8' 4 8' '' 486C'

T25K(' T 3(' 17-2'' T 28' K' T 3 -- ?58'' T8622' T8 - 9' Ck3 262' T '42 2 8' R'6257 6'

HB&C ' $' B 4= '! :) , ,

D 856 < 83' T '815' 5'1 '.

"0(E\a920(3' "6 -8< 16'8<1' " 57'8326' "1- ' 7'8' E' E211' '0 '' E6'5 '42''D< 1- . F' 5'1 ' F72 8 3(F('8< F 92' M(8' ?(11'2 1' T2 -(' ('-72 L 661' 2-#(6 L 6 '8 L1-0(8 ' I 86'8< G (<8(=94=2- ' 0' <6' ; '6 1B : '698('4-2## 2 : '6 3' : 'B'8 : 7' (: 72 1(8 : 62652 : 2

: (6'' : 24- (9'' : (8' : 0'8 : (# (' : 1 ' : 1-' 1' ; (8'' ;(K B'' : O6 8' C #3 266'' C 81 ' C(3 62 ' C(12(' @ B78 '@(3((< @(3((< ?212'D= ?' ?6(82-1' ? 26 ? 280 3' >288'' >2 9' >(- O ' >6(2 ' >(<(6 '' ' >(6'8<'A 11 '8' >(6- '' >1 (' E'<(9

A 'B'8 4-'>4-2 17K 3 4'94 ' 4' '-(4 2<62(4 90 1 49(6281 4-' (#(6 4 J' T'90(T' <' T' '1-20 1 T 64 T '815' 5'1 ' T 6' T 2 K ' K ' 82 K62"0(3 TK8' -201 '<-' 5 0 8 ' (6(3<' ((82B7 ,'- ' R ' 1' J X' 016' 6

"70'1 T89'8' "0 7'1 '' "00 " 7'6-4 7 " 7- " 2 9'8 "62W'8< (#(6 "62 '8< (' 1 "#K#' "8 " 57'8326 " Y'9'3 "1-' ' "1- ' 7'8 " 3 1-0J("Y? E' 757 1' ' E' 798- E' E'6' 6' ' E' ,-' E' E'- 9 E2m<2 E2 <6(72 E2 < '81 E2 2B(1

E(1 ' E(3(< 7(E(3((<1 E(2' 6 E(6 7(E(3' E(1(36 271 E(B7(8' E 21- ' -(1 E '81 E 26' ''T12- (E 262 E N63((< E #6(1-0 E ?B72-1 F726 '0 81 F72 2 F72 8 3(F783 2 F 5'11 ' ?B281-((7(J" M2 028- M '1 L57 9 '<B 8 L3(2 1 L -2 80 3 L -2 68(<' L -2 7(16' L6'0 3' L62-2 L6 1' 2-3 '< L6 1' 2-#(6 L 6 '8 L1128- 6 L # -(G'-57 8' G26'- G(6< 83?8 G(6 G (<8(G (B8 , '83(

A(1-(' ' (8' '-72 M(8' A(1-(' 4 ' A 'B'8 A 'B71 A 0 81 ' A 2B76-1'' A 61 ' EB02 4-'>2-2 10 3' 4'6 '8 ' 4'9 ''' 4'8<(9 ' 4' '# 6' 4' '-(' 4(76 11(60 3

N > $ / ! $ + * P ’

(b L j o 5 % * ’ ; E

B&& ’ $’ B 4= ’ !’ > ’ ’ 3 H

42 3 81 ’ K## - ’ ’8<’
. (J2 ’
42 3 2 (’
42 # 7(’
42 ’1-(#(6
4729 ’ 7’’
47 17,’’
47 ’’
4 2< 52’
4 2 ’<B
4 90 1 ’
4 9 2 7#(6
4 29 2J 52’
46’ ’81 ’
46(8 9’
49(6281 ’
4((
4- ’, ’’, 11’’
4-’ (< 0’
4-’ (#(6’
4 7 ’9 ’: ’627’
4 9
4 J’6

4 B ’8
T’3’8 (3
T’ 9 0(
T’9 9 2 (1
T26’
T29
T72(<(1 ’
T 6 1
T(9 ’1B(J
T(B7(
T (-1
T1 -1aT
T1’ 1 (2’426(
T 6’
T 2
K ’
K36 57
K 9 ’8
K1- ’ 26 ’
’1’’
’1 6 (’
0(3

68’
-201
6’< ’ ’B
6’< 9
6’< 9 (67 81
(6(3<’
((82B7
(- 81
(B821281
’ -
’B 9 ’
’ ’178 ’ ’(6(57(
R ’ 1’J
R28<28
R 8<’
X’6-’
X’ (16’ 6
X261
X 2
Y726218((<1
Y7 -(9
Y6’-(1-

= $’G’ > |z’ ’ | H

4’8-’3(’<2’F(9#(1-26’’
4’ ’3(11’’
423(’’
42 K2’
4 2 (’
4 9 ’85’1’
4(’’
4 25’
T’6’ 2 ’’<2’6’’A2 8’’
T’ ’’
T’ ’3(8’’
T’ ’1’
T2 26
T 82(
T(62<(

T((’
T(2 2 ’
T(-(1’
T(-’8’
T 66(
T <26’
T
K02<’’
K- 2 ’’
’6<2#2m’1’
’6285 ’
’6285 ’’<2’ ’65V8-’
’66’ <(6 <
’661

2 N ’<2’6’’ I (8-2 ’
r62B CV6’3’
57
3(
66’6O’
66’8 2 ’’<2’6’’42 28’
66’8 2 ’’ ’’G26-
66’ 2’6
66’ 5 (1’
6628’
-(’
2 (
X256’
Y’9 (’

U $

E(’1
M’625’ 6 ’
L1 61- 8’
I’6 8
G2 62
G266 ’ ’
G(-7280 3
G(-6’8< D 1;.
’ ’6 9 1-’<
’ ’#’ ’8<’

’2 8S1’8<
’S8 S# 83

: ’6 9 ’
: ’ 61 (8’
: ’ 61-’<
: 1- ’81-’<
: ’8<1 (8’
: 8 S# 83
: 62’
: 8<
C ’6 9 S
CV-’6’
@(J # 83
@ S# 83
?6’8< D 16 .

t 20 (
?1-2 1 9<
4S<2 7’9
4’S<2 ’-2 32
4-(5 7(6 9
4 8<1 ’66
T (K7u--’8
K#1y~’
21-2 k1
2W
10
X1-’<

47’0’-1
KB7 -12
’6 2 (
’8 ’(

U "A # $ ’!’ }

"’ 3’
"##28B266
E’126
E2 8
L83’< 8(
I 0(3
G6’ 1
G 1(81

G | 2
. 52 82
@2 57g-26
4-’G’66
457’ 67’ 128
457 J B
4(62 2
T7 3’

T 5 8(
T(33280 3’T72
K8-2 J’6<28
K
’6’ 1
’ <
Y 3
Y~ 57

= $’G’ > ‘

"< ’’
"3 6’ ’
"3 6’1’
"6O’52-2
"6O 2’’ . ’’
"65’6V D\%’-(J81.’
"65’6V <2’ , 28’ 21’
"65V8-’’ ’
"65VB’ ’<2’4’8’ ’8
"65 ’
"65(
"6325 ’1
"67’ 9 ’’<2’G ’8’<’
"67’ 9O ’’T72
"6 5’8-2
"6 9 ’<N8
"6 9 ’81’
"6 928< ’62 (
"692 ’
"69 (<v ’ ’<26’F’ 9 #(
"6(’
"8< ’
"8-2n 2 ’
" ’8 2B
" 5(1’<2’6’’ I (8-2 ’
"1-2 3’
" 6’
" 6N1
"B ’3’
E’<’ (B
E’<’6(8’
E’28’
E’NB’
E’ 6N8
E’ ’5’6<(
E’ 526(8’
E’B’
E2 ’
E 6O’(
E 3(1
E ’8’
F’0 ’
FV52 21
F’< B
F’6’7(’
F’6’-’ <
F’83’1’<N ?8 1
F’83’1’<2’T 82(
F’ ’ ’5’
F’ 0’66(
F’ 5’3N8-2
F’ <(8’
F’ 9(8’
F’ -’328’
F’1-266v8’<2’6’’>6’8’’
F’1- (K < ’621’
F2723 8’
F7’8-’<’’
F7 56’8’

F 2B’
F <’<A2’6
F <’< A(< 3(
F(8
F(<(’
F(88’
F 2 6628-2
F 285’
F 2 ’1’<2’ 2 ’
F 662 k
MN8 ’
M(8’E28 -(
L5 ’
L6572
L15(’6
L1-(66’
L1- ’<’ ’ ;’
I 26’8 -W
I2 (6
I 3 2 ’1
I (81’3 ’<’
I 28-2 ? 2 8’
I 28-2 ’ 0 ’
G’8< ’
G’ 57’
G2 (8’
G v8
G ’<(
G ’8’<’
G ’<’6’ ’ ’
G ’< W
, 266 8
’ 26 ’
’ v 5’6 ? 2 ’
’ 215’
=3 ’6’<’
= 8
’5’
’N8
V- ’’
2 NB’<2’6’’ I (8-2 ’
2 NB’<2’6(1’F’0’662 (1
9 66’
; ’’ G ’8 ’
; ’6 8
; ’’ 82’
; ’83 2(
; ’’ K8 (8
; 20
; 2(8
; N <’
; 8’ 21
; 6’821
; (3 (m(’
; (’
; (5’
; 528’
; 3(
C’< <

C’6’3’
C 8(5’’D 16 .
C 5 ’
@’ ’ 2
? 2812
? 2<(
I’6285 ’
>(8-2 2< ’
4’6’9’85’
4’8-’8<2
4’ ’3(11’
423(
42 662
4(’
T’ ’3(8’
T2 26
T(62<(’
6285 ’
’66’<(6 <
Y’9 (’

= $’G’ > ‘

C’6’3’
C’8 5(
C’8 21’
C’8B’8’ 21
C’ 5728’
C’ -(1
C’ -’ N
C’BV v8
C2< 8’’4 <(8 ’
CN <’
, 2 21
C(8<(m2<(
C(8 (-2
C(8-2 (
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C(v8’<2’6’’ I (8-2 ’
C(- 6
C 6’
C 5 ’
@’ ’
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?5’m’
?8-28 28-2
? 2812
? 7 26’
? - 3 2 ’
?1 8’
? 2<(
I’6285 ’
>’69 ’
>’9#6(8’
>’8-v8
>2m 15(6’
> 6(m’
>6’1285 ’
>(8-2 2< ’
> (-’C’7(8
>(B(06’85(
> 23(’<2’F(<(0’
> 28-2’ 2’1
> 28-2’ G28
> 2 -(’<2’4’8-’’C’ ’
> 2 -(’A2’6
A2<(8<26’
A2n 28’
A2 1
A 02 ’’
A (’T 8-(
A(8521 ’’6621
A(8<’
4’0’<266
4’6’9’85’
4’6’1
4’8’ I2 8’8<(’
4’8’ ; 5’ ’
4’8’420’1- ’8’
4’8-’8<2

= $’G’ > |z’ ’ | H

T((’
T(2 2 ’
T(-(1’
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T 66(
T <26’
T
K02<’’
K- 2 ’’
’6<2#2m’1’
’6285 ’
’6285 ’’<2’ ’65V8-’
’66’ <(6 <
’661

2 N ’<2’6’’ I (8-2 ’
r62B CV6’3’
57
3(
66’6O’
66’8 2 ’’<2’6’’42 28’
66’8 2 ’’ ’’G26-
66’ 2’6
66’ 5 (1’
6628’
-(’
2 (
X256’
Y’9 (’

U $

E(’1
M’625’ 6 ’
L1 61- 8’
I’6 8
G2 62
G266 ’ ’
G(-7280 3
G(-6’8< D 1;.
’ ’6 9 1-’<
’ ’#’ ’8<’

’2 8S1’8<
’S8 S# 83

: ’6 9 ’
: ’ 61 (8’
: ’ 61-’<
: 1- ’81-’<
: ’8<1 (8’
: 8 S# 83
: 62’
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C ’6 9 S
CV-’6’
@(J # 83
@ S# 83
?6’8< D 16 .

t 20 (
?1-2 1 9<
4S<2 7’9
4’S<2 ’-2 32
4-(5 7(6 9
4 8<1 ’66
T (K7u--’8
K#1y~’
21-2 k1
2W
10
X1-’<

U "A # $ ’!’ }

"’ 3’
"##28B266
E’126
E2 8
L83’< 8(
I 0(3
G6’ 1
G 1(81

G | 2
. 52 82
@2 57g-26
4-’G’66
457’ 67’ 128
457 J B
4(62 2
T7 3’

T 5 8(
T(33280 3’T72
K8-2 J’6<28
K
’6’ 1
’ <
Y 3
Y~ 57

U "A # $ ’! > A’

"’ ’
"6-<(
"##28B266
E’<28
E’126
E266 8B(8’
E2 8
E 2882
E 23
E 3<(
F7’ W’<2’I(8<1’ ;’
F(2
M’ (1
L 81 2<268
L832602 3
I ’ 28 26<
I 0(3
G282 ’’DJ -7’5’8-(8.’
G6’ 1

G 8’<1(8
G 8<26J’6<
, 2 1’
, (328
=8-2 6’ 28
; ’ 1’882
; 2 6
; 21-’6
; (5’ 8(
; (<2 ’ ;2
; 52 82
; 3’8(
C2 8328
C(8- 2 W
C(’-
C(3’ -28
@2 57g-26
A’3’-B

A(9’817(8
A(157’57
4-’G’6
4-’C(-B
4’ 828
457’ 7’ 128
457 J B
429#’57
4 (8
4(62 2
4-’81
T7 9
T (328
2 2
R 8-2 -7
Y2 9’--
Y 3
Y~ 57

B H ’’ $’ B 4=

"< ’8(#62’D 6’ 2-.
"< ’8(#62
"6O’8 ’
" 3 (’1- (
" 6(8’
E2 -
E -’ 8-(
F7(6
F(81-’8- 8(#62
M’ <’826621
M < ’3’-57
M2 9 (-5’
M 0 ’
M ’BB(
L8(1
G’66’#(6

G 9 6 8’’
6’88 8’’
=#2
=17- 0’,
’ (’ ,
: ’ ’ , 11’
: ’1-(’ ’
: ’ ’6’
: : 6 1127
: (# ~6~
: (-57’
: (11((
C ’52<(8 ’
C’ 9 (’’D 16 .
C(8’1-
@(0’B’5

?57 <’
>’ 3,’
> 2 2B’
> 8521 ’=16’8<1
> 17- 8’
> B 28
A(<(1-(
4’6v8 5’
4’9 (-7 ’52’D 16 .
45 -’
4N 21
T7’1(1’D 16 .
T ’8’
K1 ~0
(<28’
Q’8-7

B 4= ’ !’ 6 ’ b 0 #’

;%$ 6 "’ ’ ,’ ’e ## #’ ’5

"0<2 ’
"5726(1
"(- 9
"23(1#(-’9
"6O’8 1’ : ’5 1
"6O’8 1’C(81
"621 ’
"63 < 1’C(81
"66 ’
"6#72 1
"61 2- 8 1
" 9#7 #(6 1
" 9#1’85- 1
" 9(5’
" 1- ’1 ’
" 29 1
E 0 ’5-2
E(1#(1’F 992 1
E -7 (- 9
E B’8- 9
F’ 8 8- 9
F26- 02 ’
F72 1(8212
F 52 1’C(81
F -7’2 (8
F6 - 98 1

F 66282
M’5 ’
L<211’
I ’85(8 ’
G’66 ’’F 1’6# 8’
G’ 6
G2 3(’
, 26 5(8
, 2662 1#(8-
, 92-- 1
=66
=- 1’>(- 1
; ’5 8 9’ > (9-
9
; 5 2- 6 1’C(81
; 5 8 1’ : ’5 1
; 3 < 8 9
; 5’2 1
C’11 5 1’C(81
C2-’ 1
C(21 ’
@2 9 (281 1’ ; ’5 1
@2 1- ’
@(5 9
@ 9’8- ’
?2-’

?6O ’
?6 9# 1
?# 1
?11’
>’2(8 ’
>’88(8 ’
>’ 8’11 1
>26 (8
>266
>28-26 (1
>2 8-7 1
>7 6 ##
A’2- ’
A23 66 1
A 0 5(8
4’3 8- 9
45 66’’8<F7’ 0<1
45 -7 ’
4(’5-2
4 8 9
T2 321-2
T7 ’52
T 20 ’
T ’1
8<26 5 ’

b$\

&

GL?GA">,

0 4 =

+ !% 5 ! : $ > : ' % 8 :&&$:

(~ 6% ! I 6 i (

K 6 2

"J2
F(88
F(0
M2 3
L <-
I 82

G' 6(57
-' 82
;' 2M1- 5-
;2 28
;(9(8<
'- 22

#-

J D N8 sQR

C<<J8
C2 12
? 12
42 2 8
47'88(8
4#2

A 2 ';

4-(

T221
T7'921

- 99r6

TJ22<

R2AT
R 2
X' 2J

Z 6= 8- - 81' , K

E28 ;2<'
E28 ;(9(8<
E28 C'+<7 6
E28 @2 1'
E28 28 2'
F'<2'=< 1'
F72 (-', 661

57 -29', 661'
F(--21J(6<'
M(J81
~<(8' 9 6 8
9# 81 - '
, 376'8<1'T72

C28<7' 661'
>p' T72'
>288 82'F6' 8'
>K86 9 9(8'
428 2K'
48(J<(8

" 61'F ' 3'D=16.
"6628' 3'(
" <28', I(21-'(
7 62'(
E'11'A(5 'T72'D=16.'
E2'(7 2'<
E266'A((' D 16.
E67(' =162'T72'D#28 8'
1 66'
E(<2 1'T72'
F'62<(8 '8'F'8'6'
F7'9J((<I(21-'
F721 6 E'8 '
F(9'- 'I -7'
M' -9((
M2'8'I(21-'(

M(332'E'8

L97((' I(21-'
I281
I6'90((637' ,2'<
I(26'8<' @(' -7' '8<'
4(-7
G 8-#1'F' 12J' '
G6285(2
G628<' (630' '62'('
G627-6-
G((<J 8'4'8<1'
:K6 25 '8 62'D#'11.'
;'8<#1'L8<'
;' <<21<'62'D '662 .'
M1'W<'>(8-

C 152K'82(

C28''4- ',-1'
@2J'I(-21-'
@(2'T72
472 J((< I(21-'
4(628-'T72
4(6J' 'I7-7'
4# -72'<D1-',-
4# 8' ,2'<' (' 4# 8'
(8-

'T72
J 'D' - 6('66' 2.'
R''17'T72
R2K6''T72'
R7 -2', (12' '62'(

C28<'7' 661'
>p' T72'
>288 82'F6' 8'
>K86 9 9(8'
428 2K'
48(J<(8

M2 2' '
E' 8'D'8<' ;(57.'
E 82'D'8<' ; 21.'
L-- (' '
I(-7'D'8<'I -7.'
' 902

" (8
E'88
E' (J
E6'(J'-2
E(82
F6 <2

MJ# 836'8<' d'x 6 7621.
M22'D45(-6'8<.
M2 J28-' '
M2 J27-R --2
M(8

A p

M2 2' '
E' 8'D'8<' ;(57.'
E 82'D'8<' ; 21.'
L-- (' '
I(-7'D'8<'I -7.'
' 902

N'~ q '6+}')' (

R # 'q '

L836'8<
F(68'8<

L836'8<''8+'R ' 8 ' 0

"836212
E2< (<17 2
E2 17 2
E 25(817 2
E 5 837'917 2
E'90 <3217 2
F' <3'817 2
E' 9' -72817 2
F' 8' (817 2
F7217 2
F(8J'66
F 902 6'8<
M280 3717 2
M2 0 17 2
M2 (817 2
M(12-17 2
M 7'9
L112W

I6-(-
I 8241
G6'9(3'#'66 2
G (021-2 177
'9#17 2
;r-|(<176 2
;2- (<17 2
;8- R<(C7 2
:
:28-

:82(6810 '
C2 (82-7'
C6<<821(:' '
C28 9(- 17 2'
C(8 2(92 17 T?'
@((6
@(-7'9#->7406 2

G(-6'8<
R'621

@(-7 902 6'8<'
@(--937'917 2'
?W(<17- 2

A -6'8<
47 (#17 2

4-'<(<177'
76-(6 '
4 2'
4 112
R' J60 17 2
R21-9'(6'8<
R666 76 2
R(521-2 17 2
X(17 2

$ # ' $ ' > V# F' ' ' ,'# ' ! E'

E #962
E (9#-(8
E-(913 ((
E 21262
E (J87 661
E 89'J
E 5 37'
E <2
E 66-7

E88 <'
E 87'9'E225721'
E 87'9 (8TF ((7'
E -862'
E-71 29
E -(8 #(8 s 28-
E9
E 4-'L<9 8<1'
E 2-('
F'2#7 , '
F'82
F'902 J266'
F'90(82'
F'90 <32'
F' 9057
F'8-2 0< '
F'#26'F J 3'
F' < '
< 3'8'
F' 10 2(42'
F' 6 162'
F'-9' -728

5 - 29

F('60 ((<'62
D('6 662
F(07'9
F(2 2 9(-7
F(65721-2
F(682
F(6J 8'E'
F(362-(8
F(812--
F(8J'
F(0 -(
F2 2F'1-62
F(J28
F(28-
F(J0 <32
F(92J21
F' 70 ((
F#2< 27 '
F 29(82G'-<281
J 2
F 2R 292
F 52-v-7)
54 (7(J2
F 5 6'<2
F (92
F (9#-(8
G (J 28<
F (<(8
M'-(8 8 I 8213
M' 73-28

L37'9'
E3 29(8-
LK'8<
3K219(-2
E=1J(
E6
L8 26<
E>#83
L#1(9
E 6-7
L172
L1-(
L-(8
L 217'9
L 2
E 2-2
LW9(-7
I'69(-7
I' 27'9
I' -'3<('
I'90?'(37
I' 87'9
I' 8J(-7

M' J28' '
>' 28- '
M'J617'
M3'6
M280 37
M28-(8
M2#-(<
M2 0
M2 27'9' DL'1-' M2 2'
7'9
M2 -21
M2 (8#(-
M2J10
M 11
M(31'=162'(
M(632662
M(85'1-2
M(5721-2 'DM(12-.
M(5721-2 'D?W28 .
M(83
M(36'1
M(2
M(2 5(-
M 62<
M (-J657
M (8 26<

M 2 621'T72
M 8 626<
M 6J 57
M# 9(J
M 81-'062
> 81-2
M J 27
M 7'9
L'683
L'1-0(82
L'1-'G 81-2'<
L'1-' '9
LOOJ' '62
E2<21'
L2< 21 26<
L5(6217'K
L<280 <32
L -2'
L<9(8-(8

F7'8826 =16'8<1'
"6<2 82'
G 2 812'
2 12

4'
I' 82'=16'8<1'
,(6'=16'8<'
;8<'D16.

E' 2J2K
E'I'
E'90~-37
E'80#
E'83(
E'-<12
E' 83
E' -((-7'
E' #' <F'--62
E' 82-
E' #162
E' 81-'#62
E' (R 8 I8 8211
E' '
EA -(8 #?8 , 902
E'1 4-(2

E'-62 '
E'--2 12''
E'--62'
E5'5(8A<26<'
E2' 9'
E255621
E2(287' 8
E2<<3262 -
E2< (<
E2<6 3-(8
E2<J(-0
,26#2
E2 262
E2 7'7-1-2'<
E2 9(8<12
E2 J 5 #(# TJ22<
E2-021<'
E2-78'6G 228
E2--J1 5?2<
E2 2 62
E2J<62
E2W7 66
E2W62
E 521-2
E <2 (<
E 33621J'<2
E 61-(8
E 8362
E 2872'<
E 9 837'9
E 17(#"5 6'8<
E 17(#1'F'1-62

7'8'1 2'('
4p 66 '=1621'
4(<('8<C'8'
R 37-'=162'(

i7(# 4-(-(-<'
E 162'
>7 8
E '# 'F(8- 'T72
E 2 72A-7
E6'5 #((6
E '28' (#
E6'7<2'<
E" <(8

E(79
E(37(H
E(12 2
E(6-(8
E(6-(8'"002
(-62
?'(370 +32
E(1212-2
E(1-(8
E0 7
E(829(-7
,(J#211'(8' R68<2
'9'(2
E 95 62
E '< (<
E ,'< (<(8 " (8
E '#-#22
E '9#-(8
E '8<(8
E ;8W-(8
E '

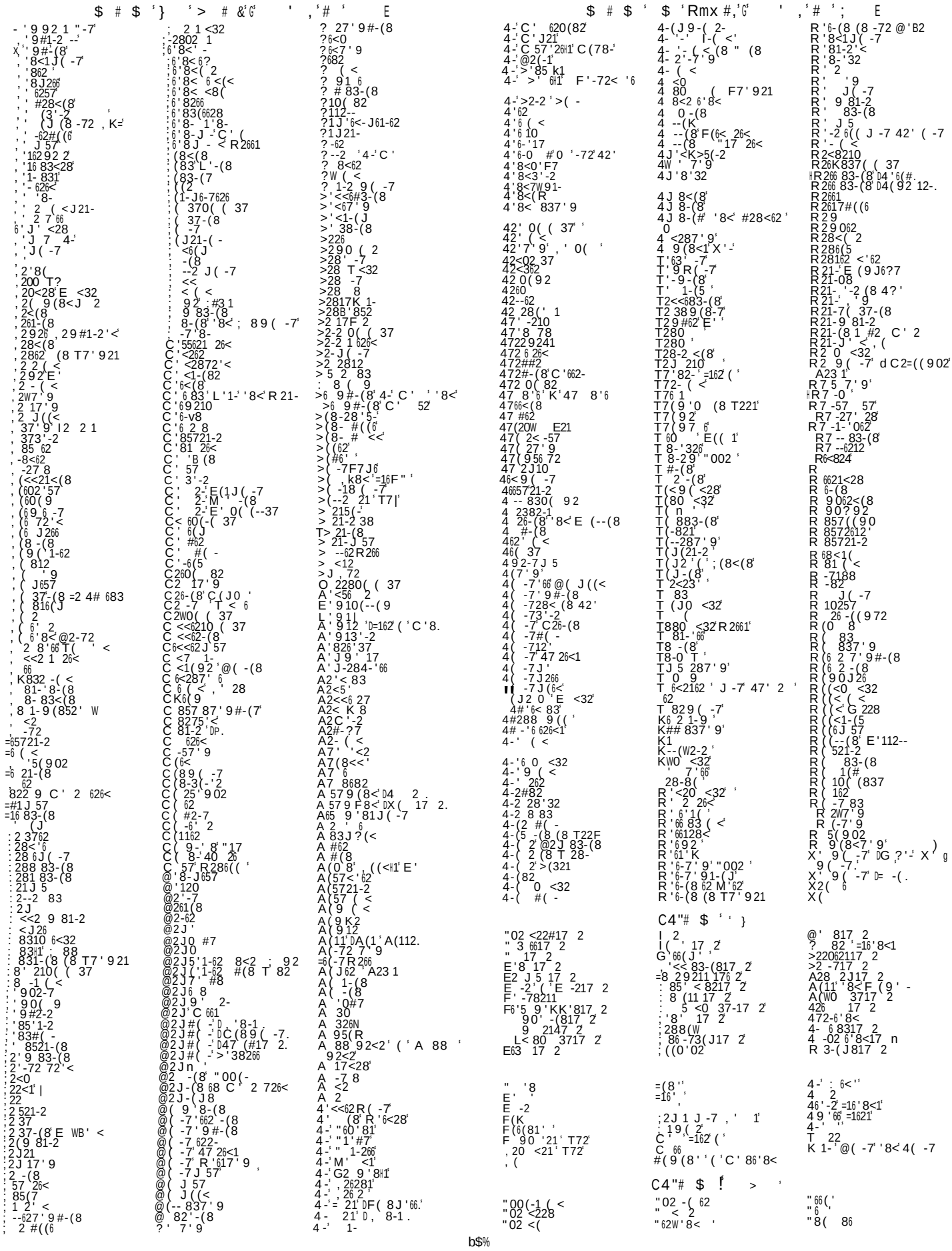
? (<
E 28-J((<
E <2J266
E <328<
E <38(-7
E <3J'-2
E <683-(8
E 6<#(-
E 33
E 637(12
E 37-78212'
E 37-(8
E -(6
E 98 I2
E 6W7'9
E W *8
E ('<1-' 2

b$&

5 6'<2
I 6(8
I 6(8
I 6(8

v/ % / ! + * X %

B (8 ; $



0+3:)4;

8

"88'8
"81- -72
"## 8
" 0 ('-7
" < (11'8
"-7(66
" (7-2 ' <2
" 57-2 9 57-
"
E'<28((7
E'66'-2
E'69 ('6 F'1-62
E'6n 7 <<2
E'8
E'88(5 0 8
E' 72'<
E'-73'-2
E2' 6
E2 2
E 33'
E6' '"-7(66
E6' 3(J 2
E6'8- 2
E(#8211
E(-7J266
E'29'
E '8W7(69
E 2'<'60'82
E 257 8
E <32 ('"66'8
E (37- ' I2
E 5 2
E 8- 16'8<
F'6<2
F'66'8<2
F'90 16'83
F' 9#026-(J8
F' 8(1- 2
F'1-62' M(36'1
F'-75' -
F'J<(
F6'5 9'88'8
F6 <20'8
F('-0 <32
F(6<1- 2'9
F(J<2802'-7
F '6
F 22-(J8
F 2
F (9' -
F <28
F 6628
F 66(<28
F 6 (11
F 98(5 ''8<', (69 72'<
F #'
M'602'-- 2
M'6 2 -7
M'69266 83-(8
M'
M 83J'66
M(66'
M(8(57
M(36'1
M(882
M 0 37' "002
M9 -(J8
M 90' -(8
M 9 21
M 80'
M 806'82
M 8<22
M 8 2 96 82
M 8 26<
M 88(--' 'F'1-62'
MW9((8
M 8 (0 8' F'1-62'
M 81

F(88' 37-
;2 81-2

M 81 8'72
-* 8Z #8' 2
M 8 572
M ' -
E' 61 7
E< 80 37
L63 8' N

3 F0
>-6R' <
I2--2 5'6#8
I#5-'02
I('
I(21
I(-'" 2 1---4
I(-2 6(-
I(-'G(((
I(- (12
I(I J 9 ' 9
I '12 0 38
G'6'1- 2 1
G'61-(8
G 8
G6' 8 1
G6'13(J
G62 '69(6D6
G((2
G('6
G(J-62
G '83J .(-7
O k8-(J'
G 22#6' R'
G 22-(#'
G 2-8 'G-Q2-
,'<< 8
;'9 A(.
'J6(
,(-28108 30
,88-6 3-0R-' ' <
A 2-- 2<

=882 6J6-7'
=8 2-'-'
=8 2 26-6 683
=8 2 8211
=8 2 8 62
= 82
2<0KT3L'
(78'='G 2'-#1', (12
(781-(82
:2 -7
:261(
:288 (2
:60' (748
:660 8 2
: 60 <2' J21-'
: 66 8
:7 8' 8(F
: 69' 1
: 6#'- # '@2J'7'L'1-'
: #'-2 ('?6<
:61 -d
:6J 88 83
: 837(8

: 8864H H'
:68-(2
: 5 <0 37-
: 5'6<
: 8-66(57
: J'66
: 28 6
;'< 0'8
;'8'
;'837(69
;' 02 -

$!' , ,
C 81-2

K61-2

;' 0'6
;'8<2
;2'<7 661
;2 -7
=2 J6D
;2162
;2 28
;86-73(J
;(573266
;(573 6#72'<
;(57 9'028
;(5 2 0 2
;(11 29(-7
C'5<
C' (76682
C'WJ266-(J8
C' 0(62
C26 (12
C28-26-7
C2-7 28
C6683' 2
C('-
C(8- (12
C(-72 J266
C 1126O 37
@' 9
@@2J'"002
@@2J0 37
@@2J9 681
@(-7'E2 J5
?0'8
?6<'M22
>'162
>' -(
>220621
>2 -7
>2 2 2' <
>6--(27
>(,(17-'J1
>(,-G6'13(J
>21-(8#'81
OK2281 2
:'88(27
A28 2J
A28-(8
A(-721'
A -72 3628
4-'"8< 2J1
4<8n 7'
45(82
426
472 69
47(--1
4-2 281-(8
4-2R'-(8
4- 683
4-(827' 28
4-(8'J'
4-'8'2
4- '-7' 28
4- '-7#2 62
4- (98211
T' 8
T' 02 -
T' #(- -
T7(87 66
T7 1(
T '828-
T ((8
T
J29 11
R7-7(8
R 5
R 3-(J8
R617'J
X2-7(78

"57 66

"8- 9
" <22
" <36'11
" 6(J
" 9'37
"-728
"-76(82
"-7
" 37 9
E'6O 33'8
E'6K8'
E'66 8'16(2
E'66 5'1-62
E'66 928'
E'66 (82
E' 9(-2
E'6 17L98(8
E'80 <32
E'8<(8
E'83(
E'8-
E26 '1-
E
E6' 82
E(62
E'
E 85 '8'
F'72
F'683(<
F' 6(J
F' 5 2 3 1
F' 5 9'5 (11
?' 6((847'78?8
F' ((94
F'1726
F'1-620'
F'1-625(78266
F' '8
F6(372
F6(8' 66-
F6(821
F6(89'58(12'
F6(8926
'F6(82

"8- 9
" 9'37
D4 6(J
?7 '8
F6' 2
F(8829' '
F((1-(J8
F(
M(823'6
M(J8
M O6 8
I2 9'8'37

"' '8'=16'8<1

'6285 '

$!' :) , ,';! E

R J'
:
:, 2K8
:6<' 2
:83H1'F(8-
:2- 9
:92 5
:F8<(8<2

C' (

C2'-7
C(8'37'8
O 228H1'F(8-
A(15(9 9(8
46 3(
T ##2 '
T (82
R'-2 (<
R21-92'-7
R2W (<
R 5 6(J

$!' > '

F(62 ' 82
F(
F '37
M' 2
M 8362
M(9-37'<22
M(823'6
M(88 0 ((

M (372<'
M (9(2
M O6 8
M 8<'6
M 83'88(8
M 83' -'8

I 2
G'6J'
G6283'
G 228(-2
GJ22<(2
,(6 R((<
,(J-7
:2661
: ¡<k 2
:K 22
:6 288
:6 ' '
: ' (2
: 66' 82
:6K 0231
:66 62'37
:69'66(5
:66 F7
: 831-2J8
: 81' 2
;C-2 288
;6 # <
R92 6(
;61# 8
; 19(2
;(8<(8<2

;(62(<
: (37 2'
: 83'8
C'((9
C'66(J
C' 7((37
C' 8((-7
C6<62-(8
C6-57261-(J8
C(8'37'8
C(8-9266 5
C 66 83'
@'2-1
@' '8
@28'37
@2J5'1-62
@2J'A(11
@2J1
@2J-(J8' <1
?9'37
>(-'<(J8
>(-' 6 83-(8
>(- 17
O 2281-(J8
A(15(9 9(8
A(15 2'
A(11- 2 (
4 002 228
46 3(
4- 'O'82
T' '
T7 621
T ##2 '
T '622
T '9(2
T 9
T '9
T K'9(2
R' 28#(8-
R'-2 (<
R21-#(-
R2W (<
R 5 6(J
X(837'6

" ## I ' # $ '!6 'q

E2-'
:0K '5 9
- 8
9 85'4- 22-'
@44FW': 83<(9'('
I(112'R'
G3'0'9H1'M 2
'< 6'7H1'R'66'
059 ''
,J F52
=5 8 26<'4- 22-'
; (882112

"6' 9'
"60 (8
"9<2 <'
" '628
E2 926'
F'2 -2(8
F'62<(8'
G'9 6(<88 9
G'11 -2 <21
M2 '
M219(8<

C'85 8 9
C2 5'
C(8'
?11(
4-(8272832
4- '-756 <2
T 69(8- 9
T 2(882K
K ((8 98
29'7 9
R' K83'4- 22-
R2112W

6 61 I

" '6
E' '6
E'6 '17
E J'
M2'<42'

C+* 8-' 8

"0(' 661
"<'9H1'>2'
" '' 661
"6'-'
"6-'
"6- 8 T'37
"8'9'6' ', 661
" ' '-
" ' '66', 661
E65'5 C(8-' 8
E(6'8'>'11
F' 5'1 1
F7 8' 661
M'#76'' ('M'66'' , 661
M' 3'
M' '6

G'6622'42''(
G(57'
=11 : 6
:' ' : 6' G 2'-' '8<
; --62

L 2 21-' C(8-
I
G' (', 661
G7'-1
, 9'6' '
, 8<' : 17
:& (' C-' G(<J " 1*
-28
:'57 8', 661
:' 6'1
:'102
:7'1''8< ' 8- '', 661
:7 83'8
:7 02 '>'11
: 857 8 -93'
:(7'-'>'11

: ((@(
:(# 8(
4'907'
K 9 '

: 28 : 8'
:20'8(8'
: 10' 661'
C'-' '8<>'11'
@'3 ' 661'
@ 63 ' 1' T72'
>'68 ' 661'
>'9 1'
4' 2<' :(7'
4'7 '<
4'6-'A'83 2
4'9'8'' A'832'
4'-#'
4' '8' C(8-' 81'
472 ' (', 661'
4 8'

4 J'6 ', 661'
4 6 9'8', 661'
4 '82-'

"9
"8'<
" '1
E'm'1'('E --'1
EN'1
E2-J'
E '79'# - ''
F' 2
F7'90'6'
F728'0
F7 8<J 8'
L #7 '-21'
>' '7'
O'8<' '
G'8321' '
G(<' '
G(31H''
G(9'6'
G 9-'
' 37'
'J'83', (

T'8 17'8'
K '6'C(8-' 81

M % &

=8< 1
: 'J'<<
'7268 9'
(<'8'
98''
:'0 6'
:' '98'1''
:28'
:61-8''
: 6'M9' '
: 8' '
:8 '9'
:817 '
;28'
;#3' '2

C'76'
C2 7K'
2 F83
C28'9

8<7 '
X'O6(8(

C 37'7
@2 7 <<'
?0'('?0
? (8-21
?W 1
>288'
A'
4'6J228'
4262283'' ? 7(8
4(82
4 9'
4 -62
4 M' '
T'#-
T' 9
T3 1
T61-'
T 83'07'< '
R' 83'83'
X'83-1B2 '83
X28 12

b$

4 5 " = &

6 6 1e 1 # 6 % z 2 6 | H

&C ## $ 4B&

C ## $ 4B&; E

3 ? $ &" $

#BC? &" $

B

'#4$

? $ & =) ,

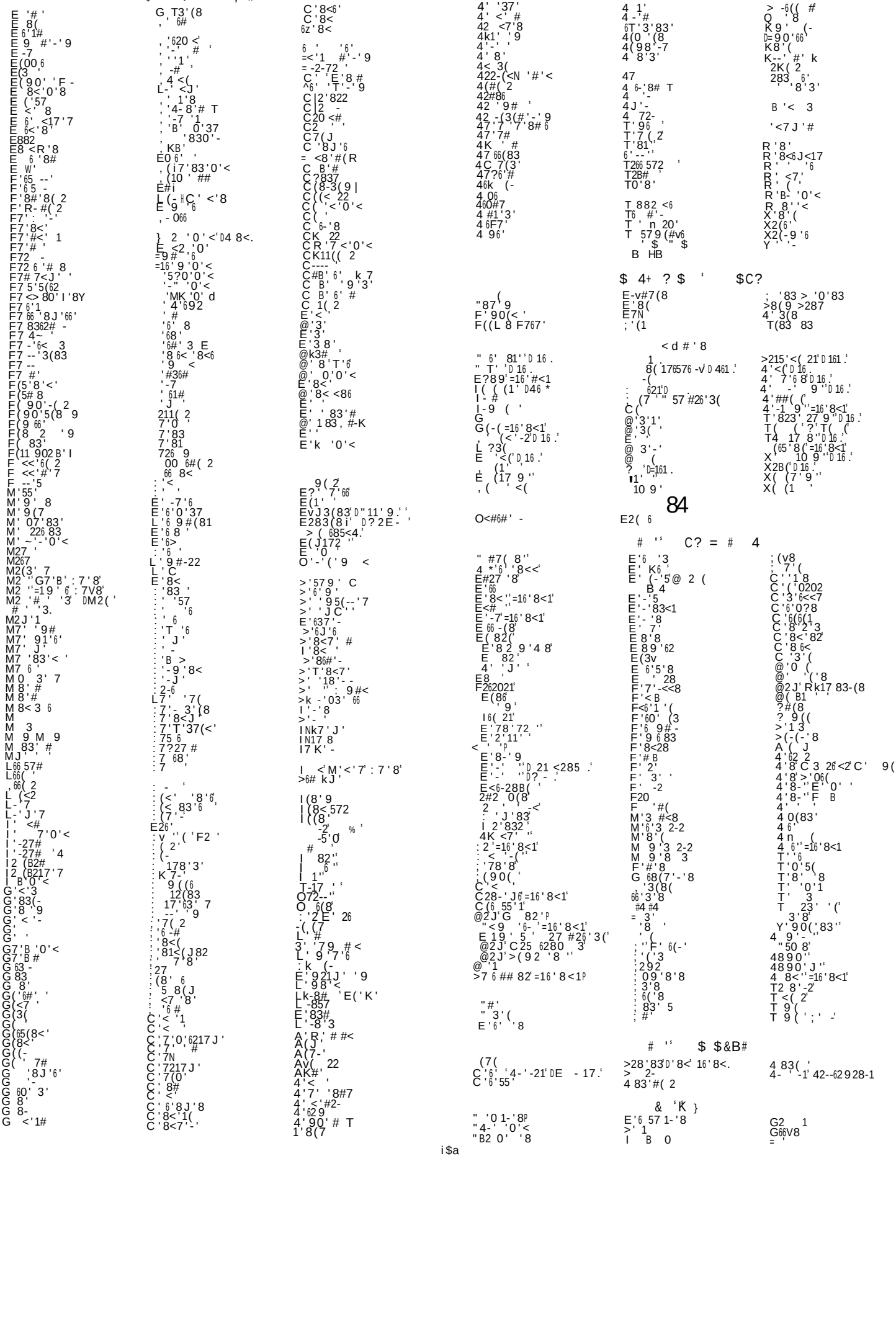
? $ & = ,

b$

GL?GA"> , XZ

0 4 =

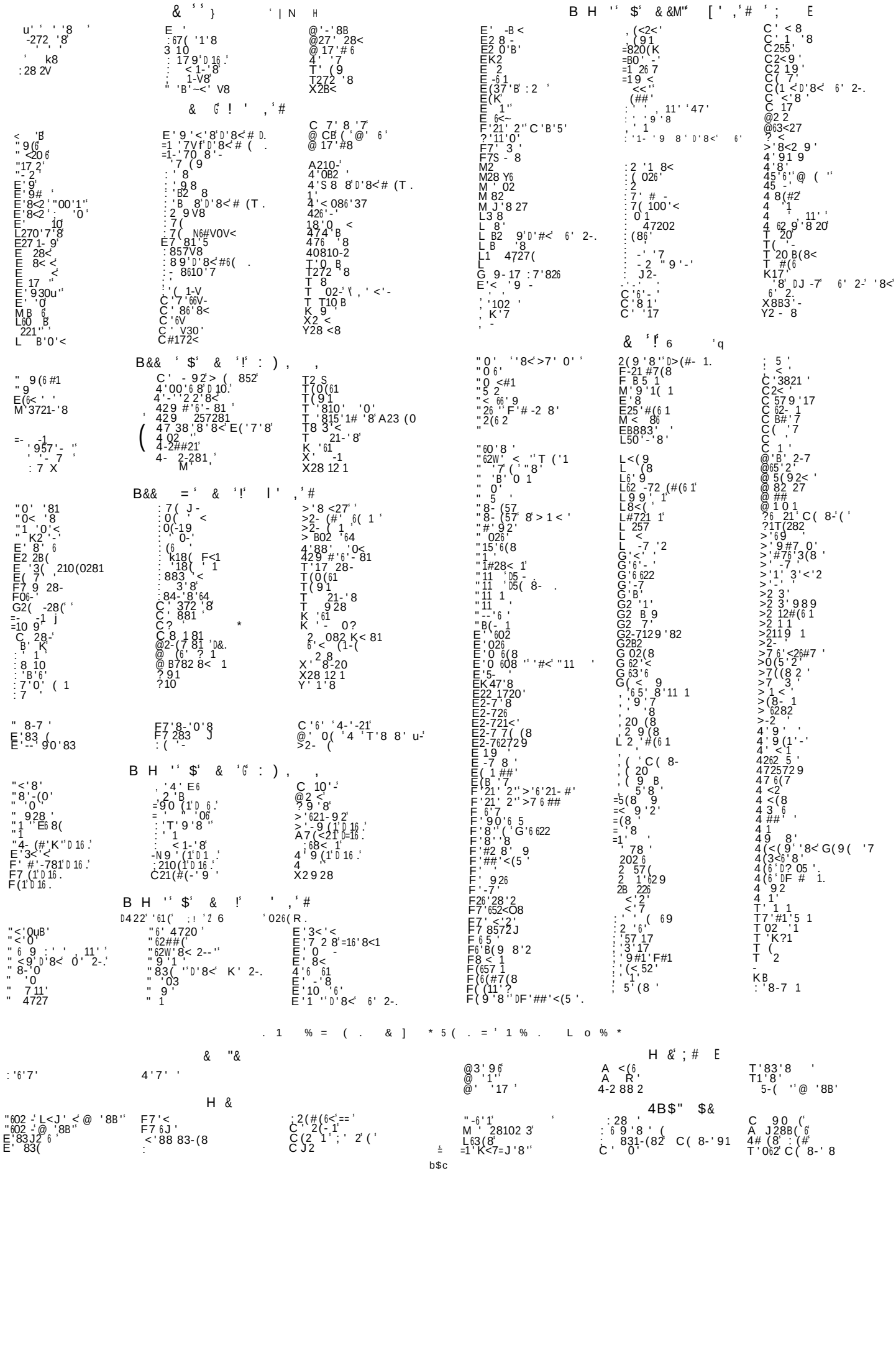
.*5. F (bLj o5%*'; E



84

4 = B

. . (b L j o 5% * ; E



0 / 4 * C =

" I A=F " F 1%. Lo%*' E

A 2

"-0' '
E'6 26 O7'B'6
E28 2
F 7(02
F(83(
F'(11
F'90 '
=16

0'' ?JN
: '32 ,''
: '1',
: (8'-'
: 2 2',
: J '-2'',
: 9#(, '
@ 3V

4R N
4(0'-
T'8'

"(X 9 '
A6 6~
4V0'
823''
0'

) E' ,
('' E'

A 2 'D! ".

T 326'
F0'836
''6

(6-'
Y' 2
Y'900-6

C 15266'82(

A' ('D< 1- 5-.'
4'6<'80k E'

5-('' I'66'

* (. F (b L j om1*

. !

"0 11 8 '
"632 '
"<'
"83(6'
"17'8-
E'36 9
E' 0'
E' (-126'8<
E'1 -(6'#"
E(
E(8
E - 17 F28- '6" 5''
E - 17 L'1-' " 5''
F'92 ((8'
5'#2 F(6(8 '
F'B2902
F(83(' I 22' 4-'-2' DE26g
3 '8 F(83F.
M'7(92
M'9' '6'8<
L3 #-

L - 2''
I 2857 F(83('
I 2857 G 82''
I 2857 R21-' " C F ''
G2 86'7'E'1-' " 5''
G2 9'' 4(-7 R21-'
" 5''
G'90 ''
G(6<' F('1-'
G 82''
= ('F('1-'
: '-'73''
: '3(1'
: 02 ''
: ('8<('
C'<'3V12' '
46(((F?
C' 8' C 2' 42-- N 728-1
@'9'n ''8<
@'-'6
@ 32 '
@ 0 '
G J32' I 22'4-'-2

>(- 3 212' L'1-' " 5'
>(- 3 212 G 82'
E7(<216'
A ('<2' ? (
42823'6
45723'90 '
4 2 '' ;2(82
46' 2 F('1-
4(-- '6 6'8<
1(-7' ' C 2'
47<'8
4 J'B 6'8<
T 0?1-
T(3(6'8<
T ''81 ''6

"KR'6@(-7
E' 02 -(8
E'5 6 'L2 1-
E' L ' R21-
E'-(-12
E'1 -(6'8<
E5'F(81726<
E2' (-' R21-
E227 8'6'8<
E6'#- 2
E6(2-' (8-268
E(10 3
E'6'J' (
F'62<(8
4'#2 F(6(8
D4 #2 T(J8
F(6281(
F(8?-'8- '
F '<(2
F 66 8'8
M 0'8
L'1-' ;(8<(8
L 8 26(
I65 10 3
G2 961-(8
G628 G 2
G ' 'A2 82-
G '7'9H1'T(J8
G 6n '6' < L'1-

4B"?' 3 C '0 " &?1

G 'n '6'8<R'21-'
A' 1967'
2 <260J3'
''32 1(8-2 8'
(7'88210 3'
:'6 ' ''
: 902 62
: 83' R 66 ' 9H1'T(J8
:62 1<(#
: (1-'<
: ((81-'<
: 32 1<2 >
: 9 '8
;'< 0 '8<
;'< 19 -7
;' 83H1@?A
; (2<'62
: <280 3
7 262 83
C'12
466<<260 R3
C(112'E'
@'-'6
@ 61- ((8'
('832' I 22'1-'-2
>''6
> 2-2 9' -B0 3'
> 2-2 10 :'
M(-'L6 B'02-7

>(-572 10 *(9
> 2-(''
} 2281-+ J8
A7(<246 :
A(002 '=16'8<
A 1-2 '0 3
47(1C(83
488>9H1T(J8
4- '<2 -(8
4-2 N80(157
4J 'B6'8<
4J7 28<'9

T " 2-
'8 'C
K -2 7'32
K 8 6
K- 2 -
(6 : 1-

J 2 1-#((9'
R '6 17'E'

J P 0 '
DR(521-2 '
/Y22 1-'
Y 90'0J2

0 118e"

"<1'"0'0'"
"<(J''
" 97' ''
"8 (02

"W 8
G(8<'
E' -'
:'4'

3<'6''
(''
T 3 N

"632 '

"63 2 1
E 1 '
E6<'
E(8'
E(3 2
F72 5726
F(81-'8- 82
E6R''<

;''F'662
;'902u4'

C(1-'3772 9
?'8
>7 6 ##2 662
4 < E2 "0021

T20r11'
N0
C#'1'
T6268p28
T q-
TK33 -
R'-36'

46-<'8

I'17(<''
I'B(3K
G'66'0'-
:''11' '
:7' - 9
A(<(6'8
M'<('L8F6' 2
C2 (2

L 3-' "

DL - 2''-(' >(- 3 2'5 L'1-' " 5'.

"3(<'-
"8-'8'8' (
"19' ''
"11'0
E'3'9((
E2 '
E2 02 '
F7 8<2
M' 21 4'6''K'
G'B'6'8<
G(8<(((
K7'90'82

0 -
: 6J'
:(283(' C' n #1
C'11'R'
C' (--2
C(90'1'
C(B'8'# n 2
C, <277
@' 20
@(116 ON
?0(
>290'

O8 6 5 '82
1'3' 2
1(6'6'
T'8'-' 2

KC(#*
R'<26'
R ---
Y' 6'
Y'8- 0'
Y8 '

e=4#'B$ ' B$ &

E283'B
E B2 -'

L ' 662
I2BB'8
('0(2
G7'<'921

G7'-
G(62--'
-20'
: ' 'J<7
: 2
C'7<'
#(-('I' 8'

4026-6'x
46'W

T(0 A
T #(6
T 8 1

'=" R21-' 5'

DI 2857 R21-' " 5''-0'G2 9'8'4# -7 R21-' " 5'.'

"02(-'
"0(9 N
"+R
"<9'J'
"
"8'0 B
"83 ''>2n 2m''
"~8S0(8'D 16.'
" 38 8
E'1?'

E283 266'
E2- 8
E<'

E(8<8
E(38

F'6'0'

M'#08'2
M2 <('
L<
L18'
I' 8'
G -
G(1728
=19' 7'
: '9 '
: ''11'1F
: 28'
: 7' 3'
: W(
C'81(s'

5'#2'F('1-'
F(15('
M' '
9 -
29'8<('>('D=16.
I 22-(J8
G'0 8'
G'8<('
G'(
G(22'D 16.
=0'<'8
=0(
6K(8
288N
: '00'
: '09<'
: '8(
: '-'3 9
: '-128'
: (83
: (8-'3#'

C2 9#7 1
@'75 '-1

> -7(9'
L4'6<

4' 1'
4 J''
4 2
4 2B F'8'6'
T -v-2
T2K'26'' 9' 6''
T72021
Y'3'B 3

C((55<

"6' : '1''6A20
F'1'06'85'
F2 -'
F7'6' 68'1
I2B, '
:'' 17
C' ' 217

C'B'3'8
C269'
C2n 8NB
C(3'<(
A'0'-
4'
4'9

481
T' 66V6-
T'83 2
T2- '
R'BBV8
Y' 7(8

3 C !' . # ' #,

" 5''A(9'8
E' 5'
F' -7'32
F "
F 2 ' 5'
F 272

L-7 (#'
G'2- 6'
, '< 92- 9
:26 (#(6 1
;2#- 1
; 0 '

C' 2-'8 '
C(8(8(-'#'
@ 9 <
>26 1 98
T 93'<
K- 5'

W] W : 702W;8 7 Ma' 1 % . ' Lo % *

H &

0 - 00'D'8<' 2 .
F7'9#6' 8
L 2
L 2 36'<21'
G2(32'
G 2'-'E2'
G 2'-' :'' 21' (' @(-7'
"92 5''T72

G 2'-'4'6-' :' 2'
G 2'-'46' 2'
(8
:' 2 ('-72' R ((<1'
C'8-(0''
C' '5' 0(
C 57 3'8' ;' 2

C(7(8 ' :' 2'
@ 11 83'
?8-' (' ', i
4-'F6' 'D'8<' 2 .
R 88 #23'D'8<' 2 .'
R 88 #23(1 1

4B$" $&

"< 8<'5 1
"8<21
"##'6'57 '8'
E 25 ' K1'
F'15'<2'
F'-1 K

F(-(#'W
F9802 6'8<
= (8
-W-'55 7 '-6
: 83#1
? B'0'

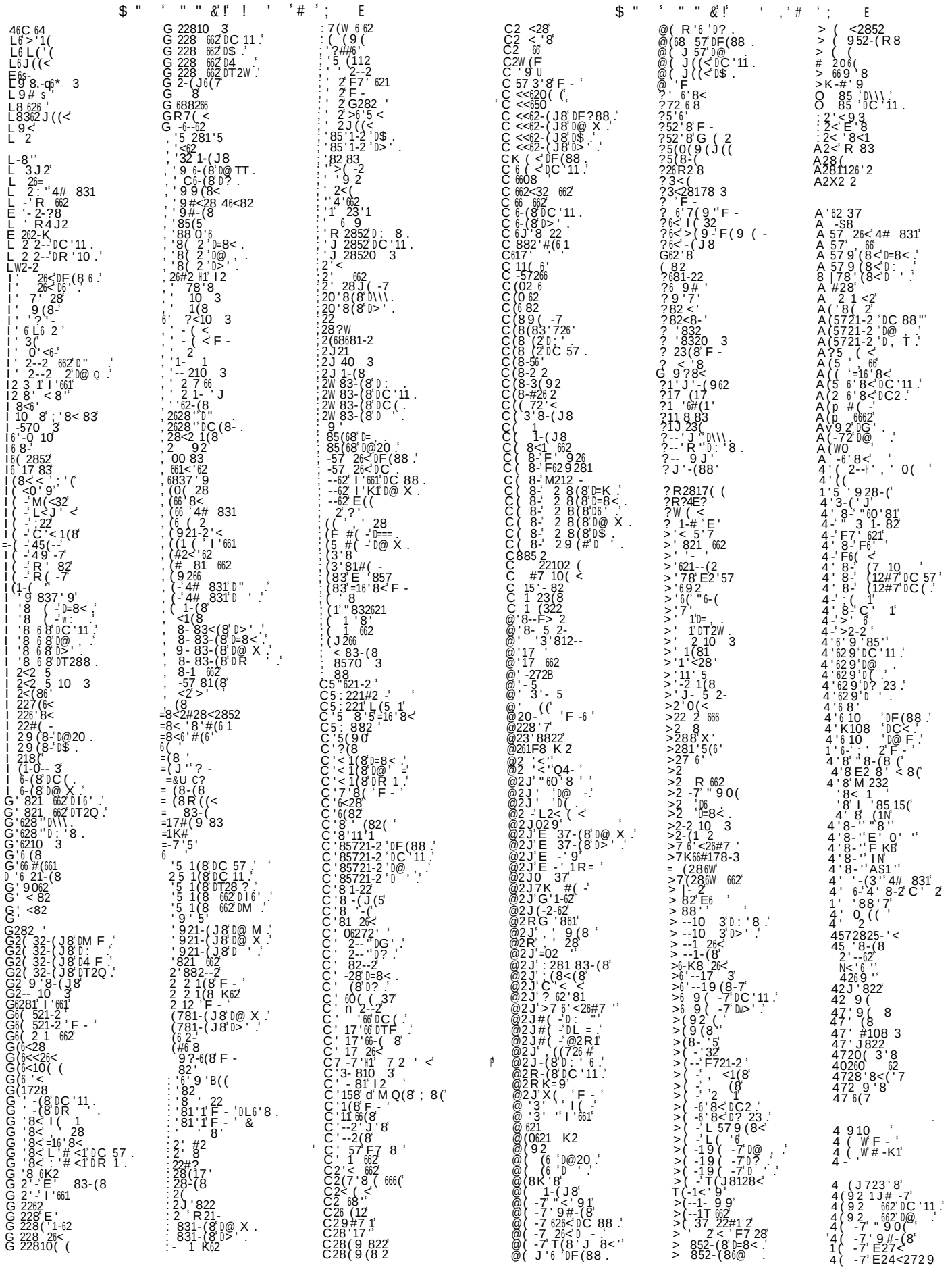
> 2#1'>2' '
>(#(5'-2#2-6
426 2,'
4 2 '@2 '<''
R 7 -2

```
                                                
```

< 2?GA " > , XZ

N/ % / ! + * 9

" C LE=F " _ 4 E



ʂ ʂ ʂ

M3 , 3 NG

a % / ! + * K

. o (o F (b L j o5%*ʂ ; E

$ " ʂ " " &ʃ! > 2ʻ ʻ | H

4(-70 2
4(-7 , 82
4(-7 83-(8
4(-7@(J'6
4(-7(6<
4(-7 ? 9 '7'
4(-7 ? '832
4(-7 >(-6 '8<
4#' -'80 3
4#2852
4#('82
4#(--1 6 '8 '
4# 83 26< D6K .
4# 83 26< DC '11 .
4# 83 26< DC (.
4# 83 26< D? .
4# 83 '662
4-' 9 (<
4-'-28'=16'8<
4-' 8-(8
4-226-(8
4-2 6 83
4-2 028 662
4-2 281'>(8-
4- 66J'-2
4-(5 0 <32
4-(5 -(8
4-(827' 9
4-(8 83-(8
4-(8 '>(8-
4- 2'-(
4 9 9 -
4 9-2
4 80
4 #2 (
4 '5 12
T'5(9 '
T'66'<23'
T'66'7'1122
T'9 'n '
T'9#'
T' 28- 9
T' -(J8
T' 8-(8
T' 6(
T29#62
T2 2' -2
T2 266'
T2W' '8'
T7(9 '1 662
T 5(8<2 (3'
T 8
T - 1 662
T(62<(
T(9# 81 662
T(8'J'8<'
T(#2 '
T(83-(8
T(--28 6K2

T(J'8<'
T' 2 12 F - '
T 28-(8 D@ .'
T 28-(8 DC (.'
T 8 <' <'
T ('D@ X .
T ('D? .
T 51(8
T 61''
T 15'6((1'
T 1 2322
T W2<(
T 62
T (82
K8 (8 D@ .
K8 (8 D4 F .
K8 (8-(J8
K 0 8'
K- 5'
'6<(1-'
'662 (
'662 ' I (32
'6#' ' 1(
'85(2
'8 R2 -
5 1093
8528821
826'8<
8 -'
R 'O'17
R'5(
R' 2 26<
R'66'' R'66'
R'66 83 (<
R'6-7' 9
R' 2
R' 28 D? . '
R' 28 D> . '
R' 2810 3
R' 1' J'
R' J 5 '
R'170 8'
R'17 83-(8 DM F .'
R'17 -(8 D=8< .'
R'17 83-(8 D? .'
R'17 83-(8 D> .'
R'-2 0
R'-2 (<
R'-2 6((
R'-2 -(J8 DC '11 .
R'-2 -(J8 D@ X .
R'-2 -(J8 DR 1 .
R'-2 662
R'-2 6 2-
R'- 81
R' 23'8
R' 217'
R' 1'
R' 2 6

R' 5 (11'
R' 8210(,('
R 200 F -'
R 201-2 '
R 227' J 28'
R 2662162 '
R 2661-(8'
R 2661 662'
R 21-0(('
R 21-0 (('
R 21-' F721-2 '
R 21-2 6 '
R 21- 26<'
R 21-' ' 28'
R 21-' ? (0(28'
R 21-' ? '832'
R 21-' >(8-'
R 21-' 4# 83 26<'
R 2-72 1 26<'
R 2 9 (-7'
R 7226 83'
R 7 -27' K'
R 7 -2' >6' 81'
R 7 - 83'
R 57 -''
R 6<2 8211'
R 6 21 E' '
R 6 810 3'
R 66 ' 910 3'
R 66 ' 91#(-'
R 66 ' 91-(J8'
R 66 9 ' 8- 5'
R 69 83-(8 DM26 .'
R 69 83-(8 D@ F .'
R 85721-2 'D .'
R 85721-2 'DC '11 .'
R 85721-2 'D ' .'
R 8<1('
R 8 26<'
R 8 (8''
R 81-2<'
R 81-(8 '629'
R 8-7 (#'
R(0 8'
R((<0 '
R((81(5 2-'
R((1-2'
R(521-2 '
R '8<(--2'
Q28 ''
X'8 -(8'
X(8 2 1'
X('DC2 .
X('D@20 .
X('D>' .
X(-(J8'
X(831-(J8
X#1 6'8-
Y'821 662

F7'3 21
F(6(8

. ''K8 (8
@ 2 '' 4'8' 4'6 '<('
4'8' C 3 26

" 83 '
"8- 3 '
"8- 6621
E'7'9'1'D; 5' (1.'
E' 0'<(1'
E' 0 <''
F' 0022'=16'8<1'
F' 9'8'=16'8<1'
F 0''
E' '5('
E' 9 ('
F' <28'1'
F 28 23(1'
F(6(8'
G 0' ''
G '8'0'5('
G '8' '
G '8-'8' 9 ('
G~ 821'
' '8''
' (63 8'
C'8B'8 66('
C' '8' ('
C'-'8B'1'
> 8' '<26'A ('
> 2 -(' > 85 #2'
A23 '

E 28(1'" 21
F'-'9' v'
F7'5(
F7 0 -
F(<(0'
F(28-21
L8- 2 A (1

E'7 '' E6'85'
E 28(1'" 21
F'-'9' v'
F/? <(0'
F(9 28-21
G('
G '623 '

"83 '
"8- 3 '
"8- 6621
E'7'9'1'D; 5' (1.'
E' 0'<(1'
E' 0 <''
F' 0022'=16'8<1'
F' 9'8'=16'8<1'
F 0''
E' '5('
E' 9 ('
F' <28'1'
F 28 23(1'
F(6(8'
G 0' ''
G '8'0'5('
G '8' '
G '8-'8' 9 ('
G~ 821'
' '8''
' (63 8'
C'8B'8 66('
C' '8' ('
C'-'8B'1'
> 8' '<26'A ('
> 2 -(' > 85 #2'
A23 '

E 28(1'" 21
F'-'9' v'
F7'5(
F7 0 -
F(<(0'
F(28-21
L8- 2 A (1

E'7 '' E6'85'
E 28(1'" 21
F'-'9' v'
F/? <(0'
F(9 28-21
G('
G '623 '

E28
F7 n 1'5''
F(57'0'90''D<2#-.'
F(57'0'90''D5 - .'

" '3('1
" 9 'B(8'1
E'7 '
F2' V
L1# -('4'8-('
C' '87<(

"65'8-' '
" ''5'
" '5'-
E'3N
E'7'
E' 0'528'
E266(, (B(8-2
F'57(2 '
F' 9# 8'1
F' 9#(1
F'8-'3'66(
F' ' 266'1
F(90V
F - 0'
F 'O'
M '9'8- 8'
M '9'8- 8(

"5(85'3 '
" ' 5'8 '
"-'5'9'
E,(0 (
F' -8
F7 6(N
F(6((7'3 '

"8-('3'1-'
" ' 5(
" 5'
F7 66V8
F(0 '

$
M' 28'
>'8'9''D5 - .

>'8'9''F'8'6

#% 4
4'8'4'6 '<('
4'8-'' "8'

4'8' 528-2'
4(81(8'-2

=
> &'" $ &
A2 9 2< (1
4'8' "8-(8 (' <2' 6(1'
E'8(1
4'85-'4# - 1'
4'8- '3(<2' F 0''
4'8- y (<2 ; '1' 23'1'
4'8-(F6' ''
T 8 <' <
F 'p' (
M(9 8 5''
DG 28'<''
G 28'< 821'
G ' <26(#2'
' -
'F'# ' 's- 28'
>(- ' > 852'
' 9 ' 5''
. : 831-(8'
.22 J' <=16'8<1'
C' 2 G'6'8-2'
C' - 8 n 2'
C(8-12 '-'
@2 1'
>(-(' A 5('
" 3 ' < 66'
" 0(8 -('
" 25 0('

F' 2
F 620 '
I ' ' <(
G ' ' 9'
9 '5' (
C' '3 2B
>(852
4'8' G2 9 '8'
4'8' '8'
X' 5('
A2<(8<''
4-' E' -7(6(9 2 J'
4-' F (W
4-' L 1-'- 1' '8<'4 '0''
4-' (78'
4-' : --1'
4-' : 5 ''
4-' C' - 8'
4-' T7(9 '1'
4-' 8528-'
4'8-(' M(9 83('
4'8-(' M(9 83('
T(0'3('
T 8 <' <
T 1' '8<' F' 5(1'=16'8<1'
3 8'=16'8<1'
R 8<J ' <'=16'8<1

$" $ ʂpʃ }
I(9(1'

C28<(B'
C 1 (821
>' 9#' ' : '
>' -' 3(8 ''
A (' ;'

A ('@23 ('
4'6-''
4'8' '8'
4'8' : 1'
4'8-'' IN
T 2 '' <26' I 23('
T 5 9'8

$" $ ʂpʃ > ʻ
G '623 ' 57
: ''>6'-'
C28<(B'
@2 n 28
>' '8'
A ('F ' -(
A(1' (

4'6-'
4'8' @ 5(6'1' <2' 6(1'
" ((1'
4'8-'' IN
4'8- '3(<26' L1-2 ('
T 5 9'8

4# %
; ''>''D<2#-.'
! ''>'B'D5 - .'
? ((
>(-(1'D<2#-.

>(-(1'D5 - .'
4'8-''F' B'
4 5 2'
W' '

A #ʃpʃ }
C'--('G (11(
C 8'1'D%2''21
>'
>' '7 0'
>' '8V
>2 8'90 5(

> ' 7 '
A (' <2' '82 ('
A (' G '8<2' <('4 6'
4'(>' 6('
42 3 #2

A #ʃpʃ > ʻ
I6('8(#(6 1
I(-'62B'
G('88'
G('B'D-(J8'8<'1-'-2.
G ' - (3 2-V
C'52 v
C'8<(1
@'-'6
@5-72 (
? (> 2-(
>' V
>' '7 0'
>' '8'3 V
>' 8'7 0'
>26(-'1
>2- (#(6 1
>(-(''623 2

A25 2
A (' <2' F(8-'1'
A (' <2' '82 ('
A (' G '8<2' <('4 6'
A (' >' <('
4'8-'' F''-7' 8''
4'8-'' C ' '' D<'' E(52('
<(' C(8-2.
4'8-' 29'
4'8-(1'
4'(' : 2(#(6<('
4'(' : B'
4'(' >' 6('
T72 2B 8'
K 3 ' ''
5-('

? # ʃpʃ }
F(852#5 v8
F 5v
: 8' 21
'6'8n 7 2
C'3'66'821
C'6625(
C' 6N

@ 062
T'58'
T'65'
T' '#'5V
T 2 '' <26' I 23(
'6< '
'6#' ' 1(

? # ʃpʃ > ʻ
F(852#5 v8
F(# '#v
F(n 90(
=n n 2
O 66(-'

4'8-'3(
42 28'
T'65'7 '8(
'6#' ' 1(

E26 B2

"6' 26'
F' -'3(

4'8' (1N

" 9 '- -6'8
"- -6'8
F(0'8

O 2B'6-28'83(
4(6(6V
T(-(8 5'#' 9

" 9 '#'6''
E' '=16'8<1'
F(9 ' '3 '

F(#'8'
- 3'6#''
> 2 -(' F(-21

T23 5 3'6#'
T 66(

"8'7 '(
F'6 (8'
F'9#2572
F/7 7 '7 '
F(6 9'
M '83(
G '8' '-(
G 2 2 (
C2W 5(' D1-'-2.

C2W 5(' I2<2 '6' M 1- 5-'
(
C 57('5V8'
C(26(1'
@ 2 (; 2v8'
?'W'5''
> 206''
A2 66'3 32<(' D 161 .
4'8' ; 1'>(-(1

4 8'6('
4(8(
T'0 15(
T' 9 6#'1
T2 8-2#25
T2# 5
T6'W5'6'
2 '' F B
X 5'-'8
Y'5'-25'1

"5'# 65('
"n '15'6 28-21'
F' 9#2572
F'1'1' G '8<21'
F7 '#'1
F7 5728 -B''
F7 7 '7 ''
F7(6 6''
F <'<' ' 2B'
F <'<'>(('M 'B'
O('7 6''
F(6 9''
F(<(0''
=M '83('
I 218 = ('
G '<'6' ' '

F7 8'8<23'
F(8-(
G '8'<'

G '8' '-(
G ' 9 '1' (' 4'8' (1N'
<2' G ' 9 '1'
, <'63('
'6'#''
'6 15(
; 2v8' D<2'6'1' ''6<' 9 '1.
C'8B'8 66(
C'-' 9 ((1
C 'B'-6V8
CN <'
C2W 5(' F -
C(8-2 2
C(26 '
?'W'5'
>'57 5'

>'628n 2
> 206'
O 2 N-' (
O 2 N-' (" -2'3'
4'6 8'' ? B
4'6- 8(
4'8' ?61-v0'6
4'8' 1'>(-(1
T'9# 5(
T27 8-2#25
T6'W5'6'
T(6 5'
KW9'6
'66'<(6 <
2 '' F B
Y'5'-25'1

C 2 -(J8
;(8
C'8'3 '

C'1' '
C(1n -(' F('1-' '8<' A2g
12 2

b\\

0+3:)4; 0

4#4

"8-(n ' E' '8n 66' E(3(-V E(6 ' E('5V E 5' '9'83', E 28' 28- '

F'K' F' -'328' F' 5' F 8< 8'9' 5' G '< '1 ,(8<'

=0'38N C'8 B'621 C2<266 8 >'1-(>(#'' '8 4'8-''C' -'

CB 4

"90'-("B ' F 285' G ' 'n 6

G ' ' 1 =0' ' ;'-'5(83'

? 28-2 O-6-(E (0' 90'

B $

F' 2882 M29(' '

L112n8 0(' G2(32-(J8

@2J' "91-2 <'9' >' '9' 0(

B '

"1 85 v8 F' '#23 '

F(852#5 v8' 66''<26'>6'

66''A 5'

B' ! }

"9'B(8'1 "85'571 "#8 9'5 " 2n #'

F7 857''=16'8<1' 8 8 ;'90' 2n 2 ; 02 -'<

; 9' ;(2-(C(n 23 ' >

B! > '

"85v8 " 2n #' " '5 (7(5 - '8<<2#-.' F' '9 5 F' '-'90(D-(J8' '8< <2#-.

F'66'(' D5 - ''8< <2#-.' F2 (' <2>'15(' F B5(' '85' 26 5' ', V8 5(

' 'B =5' =n -(1 ;9' >' -' T 66(

B B '

C(8-2 <2(

>' 1'8< '

4'6-(

$ AB # '! }

"9'B(8'1 " '3 E2 9 <2B E(6 '

F' '0(0(' I'65v8' G k 5('

: ' ' ;(1' "8<21 C' 3' -''D 16.

$ AB # '! > '

E' 526(8' E' n 1 92-(F'6'0(B(F' V5'1 F' '5(F' #2

F' ('' F' #'8(' F <'<E(6 ' ' F <'<2 F '' F(' F 9'8V

G '8-'' ' G ' '' C' '5' 0(' > 2 -(' F'O266(' '6285 '

U'a # $

" 5 6'8< F7'-7'9'=16'8<1 F7 1-57 57 ? ('=16'8<1 M 82< 8 G 10(82 G 2 9(-7

=8 2 5' 3 66 . --26-(8 @'# 2 @261(8 @2J'>6 9(-7' ?'9'

A(-(' T' #(T7'921 T 9' R'83'8 R266 83-(8

C $&' &' "C2

"< '-('42'' "232'8'42'' " '0'8'42'' "-6'8- 5 ?52'8' "B('42''(' E'6- 5'42'' E' 28-1'42'' E 15' 'E' '(' E6'5'42'' E(-78 '' G 6'(

F'1# '8'42'' ?'--23'-' M' 1'4- ' -' L836 17' F7'8826 G 2'-'4(-72 8 ?52'8' . <1(8'E' ''8< 4- ' -' =8< '8' ?52'8' : ' ''42'' C' 9('''42''(

C2< -2 '82'8'42'' C 2W 5('G 66('' @(-7'42'' @(J23 '8'42'' ? 7(-1 '42''(' >'5 5' ?52'8' >(6' 'A23 (81' A2<'42'' 4 '32 '5

"# $" C' C $'!'

"83 '' "15281 (8' "B(21' E2 9 <'1' F'8' '=16'8<1' F'#2' 2 <2'=16'8<1' I'2 (2' I'6 6'8< I' '6 I2 8'8<('<2'@((87'' I6(21 I 2 -2 28- '

I 857'6 G(92 ' G '8< F'8' ' 2 ((- -526'8< ;'3 8' ;'8B' (-2 :'1'>'69'1 C'<2 ' >'69 ' >5(

>(8-''M263'<' 4- 2628' 4-' C' 4-'C 57'2I1 4-'>' 6#1 A(5 1 4'8-'' F B'<2' T282 2 4(-7' G2(3 ' T282 2 T2 52 ' T 8<'< T 1-'8'<''F 87'

$ $' C $'6'

"6<'0 '' " 91-2 <'9' "8<'9'8'=16'8<1' F7'3(1 F7 1-9'1'=16'8< F(9((F (B2-

4226 83 : ''C ' : '55'< 2 C' < 2 C'15' 282 C' - 1 @ 5(0'

>2 9 >(-'E6' 'D-(J8. AN 8(8 A(< 3 2B 4-'> ' 6 42 5726621 4((-'

C 3 C' C $'!'

" 92 5''=16'8<1' " 5 6'8< =16'8<1' E2 83 =16'8<' 42'' '8< 4- ' - F' (6 82 L'1-2 L66 52 I G'6'#'3(1 G 602 - G '9 ' J' ,(8(6 6 'D-(J8. '8'I2 8'8<2B :2 9'<2(' ;(<',(J2

;(8 16'<2'" 57 #26'3('6- C'5n' 2 C'8 7 C' '8'1 C' n 21''1 C' 17'66 C26'821 ' C 5 (821 ' @2J'F'62<(8 ' @2J',20 <21 @' N @((6 '=16'8<' ?52'8 '' >'98(- ' >262J

>7(28 W > -5' 8 >(6 821 ' > 6766(A(-89'7 4'9(' 4'8-''F B 4(52- 4(6(9(8 T'7 - >'#22-2'D-(J8.' T(83'' T(26' ' T 7 ' R'66 1'" 57 #26'3(

4# ' 4$&'!'

E' 8' E' ' '8<' E' <8' ' ;'8<' E((-7 ' I '8B' (12';'8<' G 2286'8<

'8' C' 28 : 2 3 2628'=16'8<' : (63 2 @2J'4 02 ''" 57 #26'3('

@(' ''Y296 ' 4(-7'472-6'8<' 4# -102 328' ' 3'(7

"00'<2'"8-(82'T7(9 1(8' <' '8<' "9 ' <' C 5726'< "0<'66'- "5 m'' F7 1-('6'<2' "<' ' (78' "<'9'(E 2928' "<'91 R 66''9' "2-7 5 1'=1-2' "3'1'A'<6#7' "3'-7' 57 <21'('F 8< 1' "3'-7(<'29(8'('"62Wg '8< "6' 5v8', 2 8'8<('<2' "6' DM(9'83(' E'<'' ' ;2O6 57. "6' ''<(''>2< ('<2' "6 ' 2B' I '85 15(' "6 # 1'('" 8- (57 "8< 22' ' - "8< N2'4'6(9(8'" 3 1-' "8< 2J'(';(83 92', "8 662' 2'8 E'#- 1-2' E(3 38(8'< " 5 6 ' (J19 -7'D'9 6 .' -29 <(1' E'2<2 2 ' ' 6' E' 8'R 66''9' E' 2'R 66''9'E'6(' E' 2'4'4'9 26'R 7 -2' E' E'60 ''" <' '8' E'60('' '15('@ m2B'<2' E'66' (78

E' 28-1'R 6629' E' -7 ' 28 57 E' -7(6(92J' (78' ' E2' - 1 E22572 'I 2<2 5'R 6g 6'9 E27' 9'C' - 8' E2 2'F7' 621'T 61-(82' E2672'4 'L<J' <' E266' (78' E266(- (12#7'A28N' E28'9 8'('T <26'' E2 37 1' 2 8 57' E2 83' - 1' E 17(#'=1'0266'' E(882 662' E28 '9 8' ' L E'((82'M'8 26' E((37 4-2 28' E(3' 8 662' ;(1'"8g -(82'<2' E(-'C'T E'J<57' T7(9'1' L<g J' < E'BB'' > 2 2' >' 6' I 8p(1' F'9 662' 4' (38'8'<2'5(8-' E 28<'8' E'(J82'R 66''9'G2(32' E 52' '921' E 5 7' <- ' (78';2J'1' E 2'A(02 -'?'' E 8'0 'I 2<2 5'G '' - 1 E 921'4 ''62W'8<2

E -(8' 4 ' A57' < I '85 1 E 157 83' "8-(8' I 2<g 57 F'0(- ' (78' '8< 420'1g - '8 F'<'9(1-(''6 12' F' 66 N'A28N'" 3 1-2' F'9'M(3(' F'92(8' 2 82';(2-' F'#8 ('8821' <2 >6'8(F' - 2 ' '5n 21' F' 2 ' (8'-7'8' F' 28< 17' T7(9'1' F7'9#6' 8'4'9 26<2' F7'83'F7 8' ' F7' <8'4 ' (78' F7' 8' 'MN1 N F7'B26621' 2'8'C'-7 2' <2 F72182 ' I '851' A'J' <(8' F7 57'G2(32'L' 6' F6'##2 -(8' 37' F6' 2'L<J'<'M'8 26' F6' (' E ' G(8B'62B' <2 F(60 ' T7(9'1' I 2<g 2 5 F(6 90 1'F7 1-(#72' F(8-'@5(6('<2#' F(8J' '4 'R'9'C' -8' F((' 921' F((8'<('I' '<2

b\&

s s s

¨G L ? ; ? G X

0 + :) 4 ; 2

4 V"=? & !E

F(-21' , 2 9 '8' '
?(19 '1' 0(' "62W'8< '.'
F(67' 8' >2 (' <2'
F' 9 2 ' ,"
M' 9 # 2 - ' J 66 ' 9 '
M' 8 26 D(' : 2 .
M' 1' (08
M2 = (8 ' G2(32' R '17'
83- (#
M287' 9 ' M W (8' '
M' 8' '2 @(' '21' E'
-7 (6y 9 (
M 5 6
M 2 9 2 8 ' " 8 - 7 (8 ' '8'
M W(8 ' G2(32'
M(K2' 2' 8' E '#- 1-2'
M' F7 ' 66 ' > ' 6'
E266 (8
M 9 (8 - M H K 662 ' 6621'
4NO '1 - ' 8' FN1 ' '
M 2 2 ' , 28 '
LO26' ' G
L6<' <' E28' , ' 76 '
L 9 8' > '17 '
L8 - 22 '1 - 2 ' W' (1N#7 '
"8 - (8N E 8 ' < '
L <(W6 1
L 2 21 - ' 4 'G2(32'
I ' 28
I2<5728 - ? ' "62W 1' > ' g
6(57
I28 - (8 ' L < J ' <'
I2 8 '8<21 ' "6 ' ('
I2 8 '8<2B' (78'
I2 8 '8<2B' '8'
I -57 ' A ' 6#7'
I -B (' A(02 -'
I62326' L<J ' < A(02 -'
I6 8<2 1 ' C ' --72 J'
I(< ' A 57' <'
I(21 - ' 4 ' (78'
I ' 8 6 8 ' 4 ' (78'
I '12 ' ' 921' E ' 66 2'
I N 9 (8 - ' (78' F 7 ' 621'
I 2 5 82 - ' (1' F6 ' <2'
M 21 ' 1' <2
I (0 172 ' 4 ' C ' - 8'
I 82' W ' T (0 ' 1

G' 9 ' ' ' 35(' <'
G' 8 2 ' C ' 2 +.42#6'
I '8F
G 602 - ' 4 ' , 9 #6 2 '
G ' '' G2(32'
G(6(8 #' '1 6 ' C '
7 '66(X (7
G(92B'M (3('
G(18(' E' -0(6(9 2 '
G '8 - ' 821' " 3 1 - ' 1'
G ' (- ' " 8 (6< , 28 -
' 6 - ' A 57 ' <
' , ' 6 ' E ' 1 6
' , '66 ' F7k 621' I '85 1'
' , ' 9 < 8'
' , 8 J ' ' (8 '1'
' , ' -(8
' , 2 ' 9 2 ' 4 ' 9 26
' , 28 ' (6 ' > (- 3 ' 6 D T 2'
' @' 3 ' -(
' , 2 02 - ' 4 ' T 7 (9 ' 1'
' , 2 ('D - ' , 2 X (832 '
' , 2 377 ' T 72(<(' ? "'
' , (6 9 '8 ' '' 921'
' , (680 ' 8#'
' , (829 '78 ' I 2<2 5 '
' , 1 ' 8' T1 '83'
' , 2 ' L ' 1-2' AN361'
' , <1(8 ' , 28 '
' , 9 0(6<-' I 2< 57'
' , 2 8 -(7 "62W'8<2 '
0' (7 (8
' , --28 ' >7K ## (8
' , 30 9 1
=08' E' - -'
=08' ' ' '6
=08' ' 0'
=<1
=8362 626<' 4 ' L<J ' <'
" 3 1 - 1
'5 1(8' I 2<2 5 ' G'
(781-(8' "62W'8<2 '
, 2 -7
(781-(8' 4 ' , 2#- '
' 9 6-(8'
(<'8 ' 1'
8 2 ' R 67269'
: '29# 2 ' L 83260 2(A 5

: '82' , 6 17 '' : 28-'
: 62#2 -' , 2 8 57'
: 83162 ,' C' ' , 28 g
2 - - '
: (-B20 62' ? - - (' (8'
: (#(- 8 ' >2-2 "65 '
2 -(7 ' I 852'
: 1281-2 8 ' " <' 9 '= '8'
C' 2 <2
: ' 83' "62W'8<2 ' G(g
<(8
: ' <' 6' (3 23(' '
: '8('1-(4 ' 921'
: '8<2 'A 57' <' ; 29 (8'
'8<' (0'
: '88(G8 66202 -' <?'
: '' >N (~12' 2'8 IT '8'
5(1' <(' G'6' #' ?(8-2'
<2
: '' 4'662' A28N' A(02 -'
F' 2KN 1 2 ' <2'
: 2' 2' R 66 ' 9' C' - 8'
: 2< ' <' (78'
: 2 ' L 511(8' D ; 2 T'
L 11(0.
: 2(' (7'8821' D ; (('
" 6('8 1.
: 2 J 1 ' C2 J2-72 '
: -73(J ' R 66 ' 9'
8 --(72 ' E ' 6<'
C F6 8-(? ' 4 ' I k7(1'
: 2(#(6<
C' F6 2' 4 ' A(02 -#'
(78' (' C21 2'
C'5G 23(' (78' Dx ' A(#'
A(3E
C'5 28B 2' 4 ' "=2%-'
8<2
C'3266'8' I2 < 8'8<'
C'6((266?' ; '85 6(-('
Dx ; 8 ' -(-2' j'
C'6-2 E 8' F(8 '<'
C'6-B'8' 28 57' (8'
E' (8' ~ ' R' -280-?s3'
88<>?8B6 8'
C' 5 '881'
C' 5(1'<2 @ B'

4 =? & E

, C' 38(K ' G ('88 '
<2
C' 8 1'D('T 2'
C' 7'9 4 ' F629 28-1'
A(02 -
C' 0'2--2' '5n 21'
C' ' C'--72 J' I(8
-' 8(
C(' '>(9#(8 4'
C26 66 ' 8 F'(8022'
>2-2 '0'(8'
C2 5'-(' G2 ' < 1'
C6-(7266' 4 ' T7(9 '1'
#31-(82
C(8-2' F(8(' G (g
'88 '<
C??-((-' R 66 ' 9'
C8 '<<'1'
C<82-('420'1-'8'
C 7 ' 832 ' R2 82'
C ' 4 (78'
@' 17-3'6' G 1-' '
@'7128' I <- ('
@' ?1'4 'G2(321- (83'
@ 20 7 ' : ' 1-28'
@ - 8 ' "-7'8'1 1'
@(<28' (78'
@(<281 ?6<' @ 61'
" <(6' L ' 0' ?7'
@K8?Y' >2< ('
@ |B F'0 '' <'' '5' '
''6 ('
?<? 5
?2615 '32' D?6(' 1.'
"<' 9
? 62'81' ,28 ' # 852'

? -26 81' "0 '7' 9'
?10(8' 472 ' <'
>'66'1' >2-2 ' 4 9 (7'
>' C 83('
>' ' 4 ' R 66 ' 9' L<g
J' <
>'- (5621'
>'81'' '1
>2' ' A(02 -' L<J #'
>23(6(-- I '85215('
E'< 5(

>2 --6?A' (7'8' ?2(3'
1- 1
>2-(-#' ' " C 91-'
2 8 ' '
>2-2 1' : ' 6'
>2-7 p ' (78'
>2 -9 32 ' ; (8 ' <'
> 26 =<'' ' '
> ' ' Y20 6(8' C08-'
3(9 2
> 8-(' I 29 ' (' C28<21'
> 8 #8 D ' 9 6 .
> Y' 6T(' I ' 85 15('
>(6(' C' 5(
=> ? ' 1 ' @ (6' '
C 7' 6(57
>-(29
> T(7'1' 4' 9 26'
> -72' 1' (' C' 12 6621'
A' 00' 8' 0' ' 4' 9''
A' 2 (78'
A2# 81' 2' 8' '5n 21

A2 <'G ' R 66 ' 9'
A288(K' ' 921'
A 0' 6-' 2' 8'
A 57' F6' < 1' ' 921'
A 57-7(28 I2 <9 '8<'
0' (7' (8
A 2 ?6< (' C (8-2' G-(52'
A --2 ' F' -
A(76 1' I 2< 57' G2 g
7' <
A(14' 4 ' ' 921' F6' '
A(k4' 4 ' (78'
A(' R 66 ' 9'
A 09 n 1' R 66 ' 9' ('
4' 84?8' @ 5(6' 1'
4' 8 -(Cy 8('
4572 (7B2 ' ' '
457 6-02 32 ' (7'88' ('
' 81
4576' 368-J2 -' D ' 9 6 ,'
4(7(908 3 ' 4 ' A(02 -
2 9 '88'
427 J(9 8 -7' G2(3
" 3 1-

45(210 ' R 6 , ' 9'
45 9 8 1' (' F7 (1'
422-B2- ' K6 (7 ' 1#' '
426 ' "62W' 8<2 '
426(1' I 2<2 5 ' F(-g
82
42n 21-2 ' 0 1'
2 7 '' >9 (' "62W'8< 2'
"602 -(' <2 6'' A(57 ''
47 62 ' 4 ' "8-7(8 '
4627(6<' >7 6 ## I '8B'
(8
4 962 ' (1 '1'
4 9 (8' (' 4-' O 28-8'
4 8<7 '<' -72' 4' 6('
('321' (
4(-(' I2 <8 '8<(' <2'
4#2 2' (78' ' 88 83'
4-' 862 ' 1 ' ,28 ' C(g
-(8
4-2 7'8 1' E B'8- 1'
4-2#7281 ' (78 ' ;6(<'
4-2 J '--' (78'
4- ' 02
4- ' -' (78' C H M(8 '66'
4- -' F7 ' 621'
4 9(82 ' G '
T' 19 '8' ' 026' ' 1B((8'
T' 2 8 2 ' 2'8' E '#g
-1-2
T7N F8(-' 2'8'<2'
T7(91(8' (12#7'
T7(688' ' 612 8'
T 88N' "62W'8< 82 >2-'
(82 6'' I '8(8 ''
'662' A 2- ' (' <266''
'85(2 ' G2(32'
' 28 --1 E2 9 7' < ''
' -729 ' ' ' <(5(' <'
21# 95 ' "9 2 3('
'6<(' K3(6 8(' 8<'
4(62(82' <2
(326' L< ' <
R7 872 ' L<J ' <'
R d21' F7 ' 621'
X'<7-' (' X' -'
Y29' (7 1

- + + z *

$

e# "

E'1 8
E2<
E(9 0
F' 2
F '-2
M -

"5'< '8
"60 '8
"66 9
"#- '8
" 572 '8' 4 1-2 9'
" 28 3' D H C (#
" (8 '8
" 921- ' 9 21-(82'
E'310(-' E]<1'
E' (5 '8'
E'6 ' 42 21'
E' -(8' E2<1'
E'-7(8 '8' 42 21'
E 9 0 <32' E2<1'
E29 2 '8' 42 21'
E(82' E2<
E(6<2' F.6 ' '
E(2 ' E2<1'
E '5 6217 ' 9' E2<1'
E ' '< (< F6 ' '
E 8-2 '
F' 8(B(5'
F'66(#
F' 90 '# 4 1-2 9'
F' '<(5' 42 21'
F' 0(8 2 (1' 4 1-2 "'
F6' J -7 I6 8-1

L' -7
L' -7n O 2
L1 2
I '66 6 82
I ' 6-
I (6<
I 9 ' (62
G2 12
(8-1

F('66 '8'
F(90 '10'
F 2-'52(1' 4 1-29'
F 69'
M'6 '< '7
M2 (8 '8' "1-2 8'
M 6 9'
L(5282'
I 662 H1' L ' -7
I6 157
G' 6-
G6'5 '6 A2- (<'
G 2281'8<'
', (6(5282'
'11 5 4 1-29'
: 2 #2 '
: 92 <3 28'
: '1
: '6' 8<2 6(G (#'
: 6' 8<(2 ' G (#'
: (8<(8' F6' '
: <6(J' G (#'
C21(B(+ ' '
C 661-(82' G -'
C (5282' 4 1-29'
C 15726 '6

C 82 '6' <2#(1 -1
C (2--'
@25
>
42 1 9 (92-2
4(6(8 '
4(6 '-' '
2 81
(65' 80

" " = '

@2(5(9 ' '
?6 3(5282' 4 1-29'
?(6 -2
? <(5 '8' 4 1-29
?W (< '7
>'6'2(B(2'
>28<6216<< 42 21'
>2 9 '8' 4 1-29'
>62 1-(5282')
>6 (5282')'
>(-6' 8< '8'
> 2 F' 8 0 '8'
> 022 -8'
O '-2 8' '
A2'< 83' E2<1'
A7'2- 5'
4 6 '8' 4 1-29'
4#22-(8' E(<1'
T2 -'
T(<(8 '8'
T '11 5' 4 1-29'
R2'6<28'
R286('G (#'
R((=J 20 '8< A2'< 83'
E2<1
X(2<'62' 42 21

$ #4 '' $ ' '&" ##4 =?'

(" 0
4 # "
4 # ' : # , ,

"0 ' 9' 1'6-1
"59 -2 (' "23 -2
"3'6 ' '-(6 -2
"3'-2
"6'0' 1-2
"602 - -2
"60 -2
"62W'8< -2
"66(#7'82
"69' J 92 (' "L 9 '8<
-2
"6n (
"6 8 -2 ("6 9 1-(82
"9'B(8 1-(82 (' " 9 'B
(8 -2

" 902
" 906 3(86-2
" 92-7 1-
" 9 '8-7 1
" 9 #7 0(62
"8'65 -2
" '-'12
"8<'6 1 -2
"8<2168 2
"83621 -2
"87 < -2
"8 2 6-2
"88'02 3 -2
"8(-7 -2
"8-7 '5 -2'
"#'- -2
"#(#7 66 -2
"n '9' 82
" '3(8 -2

" 328- -
" 3 (< -2
"1021-(1
"1-2 ('4-' 1-(82
"-'5' 9 2
" 3 -2
" - 8 -|
" 28- 67 ' (' " '8g
- 82
"W 8 -2
"B -2 ('F7211 6 -2
E' -21
E' , (5' 2 -2
E'-7 K6-N
E' W -2
E28 -(-2
E2 6
E2 66(8 -2
E (- -2

$ #4 '' $ ' '&" ##4 =?''; E

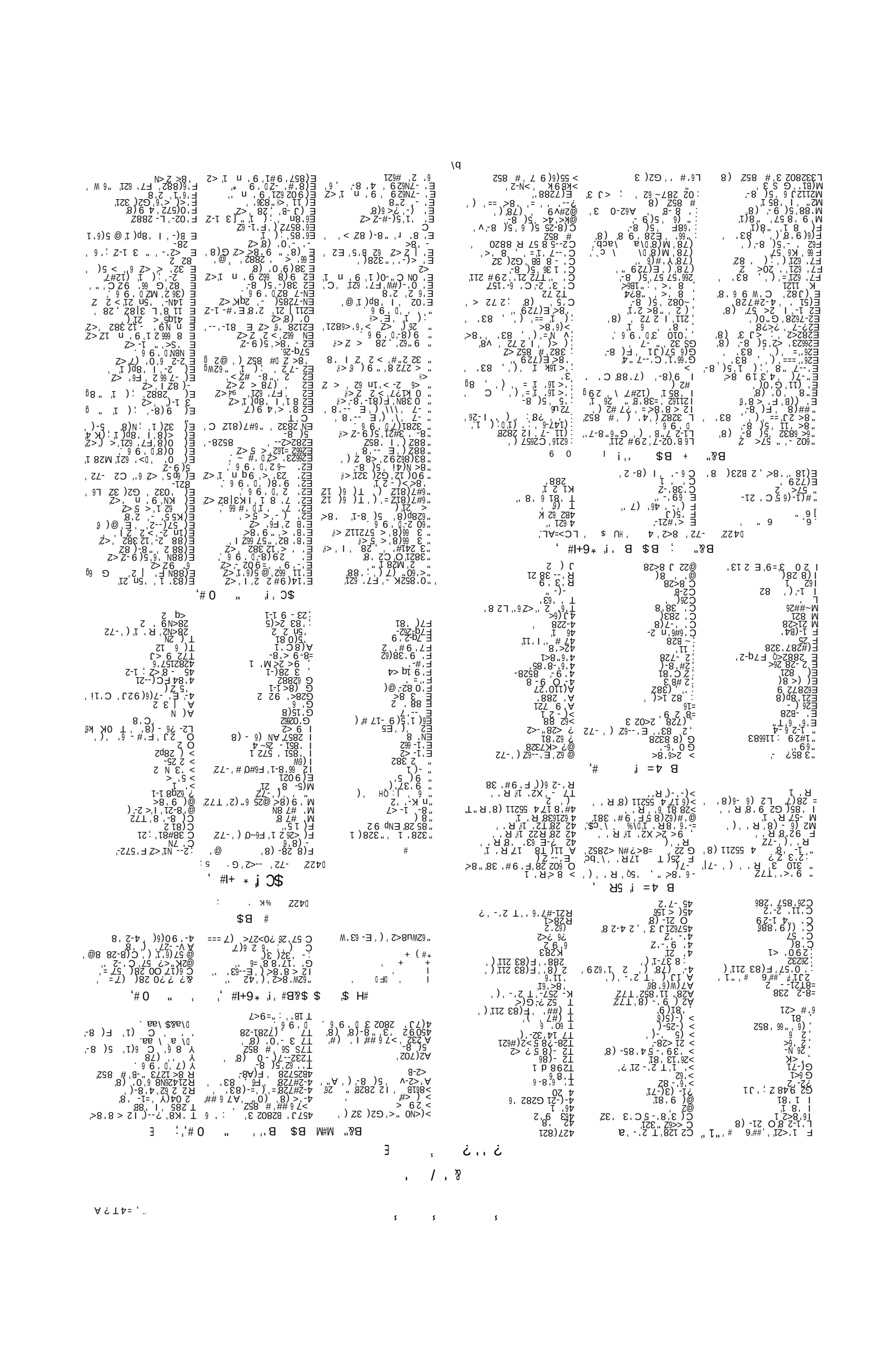
E 1 --K-7 -2
E6-?682
E628<2' ('4#7'62 -2'
E6((<8-(82
E(2
E('(6-2'
E2 -' ('E(' -'
E(9(8 -2'
E F9 6 -2'
E (E B6-2'
E ?? --2'
E 56-2'
E -? J 8 -2'
F' 83(9
F'6' 9 82 D 4 9 -71##6-2.
F'6(-2
F' 028'<(
F' 72K'8
F'11 -2 6-2
F' -H1 2 2
F2621-82
F2 ' 3 -2
F2 11 -2
F7'0'B -2
F7'6 I2<(8
F7'6
F7'6 0 -2
?7 6< 28 -2
F76(-2
?7- 9 -2
F7 1(02 6
F7 4(#(6='
F7 1(6 -2
F7 1#K '12
F 88'0'
F 88' 9 (8' 4-(82
F6 8(26'1- -2
F6 8-(8 -2
F(0'6- -2
F(62 '8 -2
F(6 906-2
F(7K266 -2
F(#k7-2' ('F(#'6 ?2'
F(##2 36'852'
F(##2 # -21' (' F7'6 '
5(# -2'
F(9 '< 9'
F(266 -2'
F((<(6 -2'
F (5(-2'
F (6 -2'
F # -2'
F '# -2'
M'80K -2'
M'-(6 -2'
M2 8' -(<'
M21560 B -('
M6' 6' 2'
M ' 9 (8<

M '1#(2
M ?#1 <2
M6(#-'12
M((86-2
M(##62 -2
M 8(-2 -2
L6'-2 -2
L 9 2 '6<
L 9 2
L84-'- -2
L# <(-(
L 0215 -2
E -7 -2
L 56'12
I261#'
I6 (- 1#'
I k8C 8 -2
I 2 24 2028 -2
G'628'
G' 82-
G2 9
G 61(8 -2
G(8 (92-2
G4-7 -(' (' G(2-76-2
G '#7 -2
G 22K(5 -2
G ,#- 9
' 29 '- -2
' ' 9(-(82
' -572-- -2
' 29 9(#7 -2
' 2K6'E< 2
' <<28 -2
' (8O628<2
' 9 -2
' 29-7
' #? 1-7282
=< 6' 67
=6 928 -(
6(6 -(
'<2
' 3#?8
' (1 -(
'1#2
2-
: '06 8
: 88 -2'
: '0 '<(-2'
: '# 1' : 'B 6'
: 2'<7 K6-2
: 2# <(K-2' (' ; -7 7'
C 5' '
: 2 5 -2'
: 38 -2'
: 9(7-('
: (#?8 -2'
C'3821 -2'
C'382- -2'
C'6'57 -2'
C'83'8 -2

C' 574 -2
C22 4 9' 9
C26'#(8 -(
C2-2(-2
C 5'
C65 (26 82
C 6 2 -2
C 92- -2
C 17 5 26
C(57''4-(82
C(6 0<28 -2
C(8'B -2
C((81-(82
C 1(n 6-2
@'- (66-2
@2#726 82
@ 55(66-2
@ - 2
?6 3(#6'12
?K 27 -2
?6 82
?8 W
?#'6
? -7((6'12
?B(2 -2 (' ?B(52 -2'
>' 16-2'
>2 <(-
>2 (1 -2
>2-'6 -(
>7 9 5(1 <2 -2
>728 ' (-2
>766K#1 -2
>76(?#6-2
>7(1328 -2
>7(1#7'-21
>7(1#7(-2
> -57O628<2 ('K '8 7 -2
>6'36?56'12
>6 9 O '3(
>(66 W (' >(66 (-2
> 20# -2
> (1- -2
>1 6(9?6' 2
> 6 -2
> -21
> (6K1 -2
> (9(#7 -2
> (#2
> (#7 66 -2
> (W282
> 7(- -2
O ' -B
A2'63'
A2- 8 -2
A7(<(27 (1 -2
A7(<(8 -2
A(5 5 1-'6
E 7267-2
A 0
A - 62

b\%

5*+2 *+:*



, =e ? A -Z

2

% ' / K

LKA?>L' E

$C 'f " OY,' ; E

:) / - O'{' I O ' | H

b\a

F 64T#AX

&'/ 9

NKL

;2 *+:20

+)+82

4 E

C f + " 0#,'; # !E'; E

=-'6 - 0 | H

C - 0 3 1 H

"e4## $

D422'@LT - A= "@e.1.

4#'' 4 "" = j'!' *6+l# ,

4#'' 4 $' = = '!' + " 0#,

" #'!' *6+l# ,

D422'61('G ı 6' $ '8<' $ '3&ı ' '

=-'6 f + " x 0#,

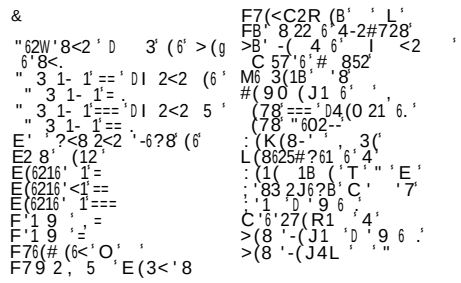
3"? #3B" #&! + " 0#,

><#'5 ' *6+l# ,' '+ " 0#,

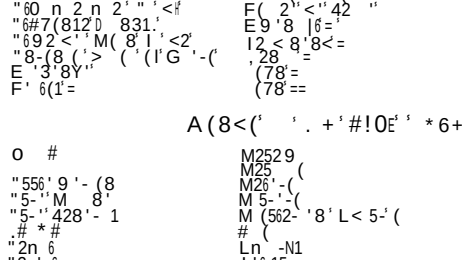
& ' / K

LKA?>L' E

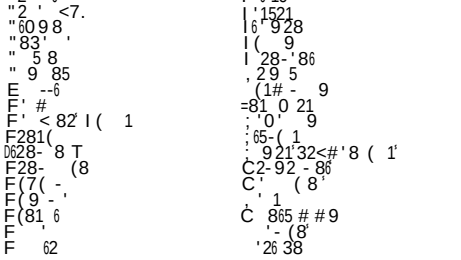
4# $ 'f -A : ' '- 0



=4 "B3 #f -A ' ' 0

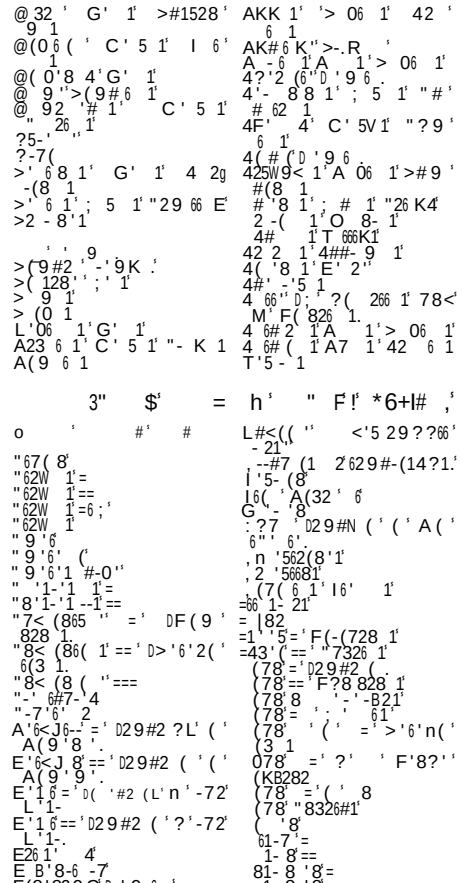


A(8<(' '. +'#!0E' * 6+I# ,



A(9 N'; '. :'#!0E' + " 0 #,

4#$ '12'. :'#!0Ef " 0 #,';s E



3" $' = h' " F!' *6+I# ,' '+ " 0 #,

B $ 'f -A ' '- 0

B&& '!' *6+I# ,

B&& 'B' - 0

b\b

2;* *+-20

EQTAO>E

s s s

¨ , 64 ? A X

s |u H

$ " ' 8 $ 4 '!

0 ' | H

4 6<2 ' <' & *<2' 6(,'
4'K<2 98<' % <2' 6('
4 2 '2' 6<(8 ('
481 2W'2' 61' ?'
4 112W'% <2' 6' (,'
48-(2 6'8<' 2' 61' '8<
< 21' (,'
E --(8'T7(9 '1'
4J 8 (<' F'-72 82'
T'K 22'
T'6O(-'D ' 9 6 .'
T'6O(-' C ' " 92'
T'6O(-' (A281(6'
T'8<' ' '@'##2 '
T' ' ' 15(6 -1' '8<
0' (81
T' 62-(8'4 'E'
T'K8-(8'0' (8'
T' 6(' C ' "
T2'57' DT7'-57' ?'
T7'57 'E<J ' <'
T29#62'4 'A ?8' <'
T29#62'\1-'2' 6'
T29#62'4 ' R 66 ' 9'
T28'28-'4 ' ' L92 1(8'
T2 6(-'2'-6(,'
T72(0'6<' ' 570#' ('
F'8-2 0 '
T76 6O ' T7(9 '1'
T761-62J(?<'" -7 '
T7(9'1' ' 570#' ('
X(
T7(9(8<'2' 6'8<' 7' '
n8211'(
T7 (5 9(-(8' I

T7 (5 9(-(8'4 '@'
T? 6(2' '(78'
T79 '8' ' 570#' (-

629? 'G2(32'
T(6629'572'T7(9'1'
T(82'T'R?K2
((2' '
T(7 -(8','2' 6',
T(83-(8' 15(8-'
T(1-3'2' 6 (' A(-7'
99I''
T(- 24'2' 6(,'
T(J81728<' F7' 621'
T(J81728<' &8<' 1g
5(8-
T(J81728< \1-'9' n 211'
T'n ' '\1-'2' 6(,'
T 2857' <' 4 ' (78'
T 2174'8' I '85 1',
T 2 26 '8'4 'G' ?'
T 2 ('4 ' (78'
T (0 6<32'4 'T7(9'1'
T 90'66'4 'R 66 ' 9'
T (7'4 'G2(3
T <('D ' 9 6 .'
T 81-'66'FK-70(.-'
T 82 '4 ' '92''
TJ22<<'62' 9' += 211N%
(,'
T'62 'R'.-'
T ((78266'2' 6'$'
T (82'2' 61'(,'
T 266'4 ' ' 921'
K61-2 '2' 61'(

K9 ' K62'D ' 9 6 .'
K8-(8'4 ' ,28 '
K n 7' -'M - <
K 1J65 ' F7 1-(#72'
'628-J ' 45(8-'
'82'4--' ,28 'D\ ``b '
\a
'82'4 ' ,28 'D\a\%'
\aa&.
2 2'D ' 9 6 .'
2 2'4 ' I '85 1'
2 82'D ' 9 6 .'
2 8(8'L<J ' <'
5-(' ' O 228'
XKK2 1'F7' 621'>267' 9'
72 '4 'A(02 -'
9 ' 1-'0' (8

<' (,32'
R'<2'4 'T7(9'1'
R'<2'4 'R 66 ' 9'
R' -7 9'8'A(02 -'
R' 2'T7(9'1'
R' 2 26<' G602 -'
R'6<23 ' 2D ' 9 6 .'
R'6<28'A(32 '
R'6 2 G2(32'
R'6 2 ' ?0'<' 7'
R'66'52'4 'R 66 ' 9'
R'662 '4 'R 66 ' 9'
RC6(# 4 ' '
R'66(#'4 ' '(78'
R'6#(62'\1-'0' (8'
R'617 '>2-2 '
R'61 837'9'4 'I '85 1

R'6-2 ' ' 02 -'
R'6-2 ' ' 75'
R'6-72(' 2' 6'('@(-7g
90'
> #U4 "?'4 ' R 66 ' 9'
> $ &34 ' F'
R' 025 ' >2 8'
R' <6' J' 28 '
R' 7'9' R 66 ' 9'
R'-2882'2' 61'
R' 28'4 ' 'E'
R' 1-(8'6(<'
R' J 5 ' 2' 61'(,'
R' J 5 ' A 57' <'
E2' 57' 9#' 2' ' (,'
R' J 5 ' A 57' <' @2g
662' 2' 6'(,'
R'-J (' 4 ' A(02 -'
A627'&8<2' 6'(,'
R'-1(8' R D<' \a$%.'
R2662162 ' 9 ' 3 211'?'
R266 83-(8 \1-' < 2'
('
R29 11'2' 61'(,'
R' -J(7'D ' 9 6 .'
R2 988<'
R21- @57(6'1'
R21-92'-7'2' .'(,'
R21-9 91-2 ' 9' g
n 21121' 8<' < 21' (,'
R21-9('8<' ' 61'(,'
R7'662 ' L<J' <'
R7'95 6 2' \1-'0' (8'
R7' -(8'D ' 9 6 .'
R72 7' 91-2<2' (78

R7-0 2'<' 4' 9-626'
R7-2' 4 'G2(32'
R7-2' 4 'T7(9'1'
R7-2' 4 'R ' " '
R7 -<(5 '4 ' ' 921'
R7-26(5 2' E 61- (<2'
R7 -- 83-28' A 57' <'
R << 83-?8'0' (81'
R67- 2<' (' : 28-'
R 602 (52' R 66 ' 9'
RK<9'8'4 ' (78'
R 6 21' (78'
R 66 ' 9'=
R 66 ' 9'==
R 66 ' 9'===
R 66 ' 9'=
R 66 ' 9' (' 45(-6'8<'
R 66 ' 9'-72 F6 -(.'
R 66 ' 9' (' 4-' F'6' 1'
R 66 ' 9' (' '628<2'
R 66 ' 8' (' R 27' 9'
R 66 ' 91' 278'D ' 570#'
(' X0
R 66 ' 91' 4 'R ' I '
R 6K' 91(8'4 ' (12#7'
R K' 91 R 88'4 ' R '
R 6((' (78'
R 66(370'D ' 9 6 .'
R 61(8'4 'A(02 -'
R6857212' A(02 -'
R 9(721-2 ' 2' 6N' '8<'
9' n 21121' (,'
R 8< '8 ' 4 ' I

R 8<7'9' R 66 ' 9'
R 83-2' 4 ' I ' A '
J 83 62 <' 4 ' A 57' <'
R 8J((<' 4 ' A'6#7'
R(6 2 ' 921'
R(612 2 ' 15(8-'
R(612 ' T7(9 '1'
R(6 2 7' 9#-(8' 1g
5(8-
R((<' 4 ' '"L 26 8'
R((<1'4 ' '"602 -'
R(521-2 ' 2' 61' '8<'
9' n 21121' (,'
R(521-2 ' (78' T #'
-(-' 2' 6(,'
R(--(8'@ 57(6'1'
R 6 72 2' (' C2 5 ,'
R 6 1-'8' ' 570#' ('
X(
R 6K1-'8'4-'
R -' 4 ' T7(9 '1'
R 8<7'9' 4 ' RKK'9'
R 12'4 ' T7(9 '1'
X?832' (78'
X(832'4 ' R 66 ' 9'
X('D7(12'(.'
XF L<9 8<' ('
:'8362 ' <8 2'('
X(' L<J ' <' < 2'('
X(' I 2<2 5 ' " g
3 1- 1' < 2 ('
X# 'A 57' <' < 2'('
X(2'F7' 621'
Y?K(72D ' 9 6 .

"1 '
" 9
"88' 9
" '0 '
" 1
E'(- '
E(82(
F' 90(< '
F7'6<'2'
F7 8? '#<8212' R ' '
L#0-7'66-?1'
G(6<28', (<2

=8<(F768' ' I 2857
=#<(4(-76'81
=112<#821
6 5'2
' '
: 7'8
: (2'
:2137681
C'6' '" 57 #26'3(
C'6' '>28 81 6'
C2<'6
C(83(61
C 66'7

@'0'-'2'81
>';< 17,'7
>' -7'
>7 6 ## 82'=16'8<1'
>7(29('
AK11('#'8222' R '
4'0'2'81
4' '5281
426 1
472 7
4 '9
4 '
R'B '(' B 2

'0U "?' 3 ? $ &" $1'!

-A

5

" 37'8 1-'8
" <6
" ((-
"11' 9

E'6 57 1-'8
E283'6
E(90'
E 9'
E 9212' R ' 1
F'65 --'
F'9'- (
F2 6(8 '
F7'6'
F(57 8
M'2(6-
M255'8
M267

I2J'8
'1-'=8< ''F(9#'8 '
I2 8306'
G'2 J' '
G7'B8'
G('

4J'6(
'2 -
', 8<' F7 (8(6(3 '
=8< '8'C - 8
81718
.'1J'
C'74 '91'
C'7 '--'1
C(3 6
C 1(2'D1-'-2.
@'0(0
@'

@KJ'0
@2#'6
@B'9
>227J'
>9<' 1
>6'112
>421 <285
A' '
A' '7
A?7666'
A (-
4'7 0
4' '
4 7' J2 2'
T7 31
T6'7'F'9#';38'
'8 3'
X 2 (7-'
Y' 9 8<'

$ '0U "?' 3 ? $ &" $1'<

I 0

"0< ' ,'79'8' : 7'8'
"3'' E=7'8'\
"79'<47'7'
" ' '4 '47217'< '
" 0'
"6(9# ' ' "6(83'
>#7('
"2' ' <M(J6'7
"1(,'
" 5 6'8<'2' 6'<
" '7EB20
E'02
E'7'< '47'7'=''
E'7'< '47'7'==''
E'6(J' 4 ' G2(32'
, 6 (
E28-85 ' ,(<'R 66 ' 9'
E <J((<'4 'G2(32'
E(382'4 ' ' 92 '
F'886 C3'2' 6'
F' ' 9' ' 4 ' > 2 2'
F 7'n02 6'8' 4 ' @2g
662
F7'8< '3K#-'' C ' ''
F7'9(5 ' (0'
F76<'4 ' (78'
F6 2'0' (8'
F(6 8' (78'A 11266'
F((-2'4 ' L 2'
F(--(8'D '8 6 .'
F B(8' (' : 2<621-(8'
\1-'02#(8
#'67O 1 2' \1-'9' n 211'

M7 622#4 837'
M(1-'C'7(76 82<' : 7'8'
M #62W' (12#7' I '7'
5(1
L<28'4 ' "1762 '
L<J'#<21'4 ' ' 2 02 -'
#6#0 81-(82' C(-8-*'
4- ' -
I(<2 'I '85 1'
G(8<(#7' 21

G #-'' D< 8'1- .'
', 17,'
';'1-831'R' 28'
'(<1(' R 66 '9'
' 9' 8'
' <2 ' "6'
#2 '4 'L6 '7'
'5(0' (78

22 2207('4 ' '9 12-'
22'
83'E'7'< '4 '
: '8 17 '
;'66 '5(9-2'<2'
;'J 2#52'4 ' 28 '
;'J 2852'\1-'0' (8'
;'J 2852'4- 832'
;(5 7' - '4 'R 66 ',9'
= - 91<28'4 ' '
C'58'37-28'4 ''R 66 ' 9'
'
C'<25'A28N <' 2'
C'6'0' 6' E27 ' 9 '
C'65(69'4 ' (78'
C' - 8PP 6' <'
C 6 ' 9128<'1'
C 8 (,'4 'T7(9'1'
@'8 ' I ' 8' 1'
@'8''4'7 0'
@'(,('M'<'07''
@'-7 07('4 'C
@2 66' '921' G2(32'
49 -7
@ 57(61(8' (78'
@(9'8' 4 ' ' 28 '
R 6 2
@(--'4 'R 66 ' 9'
@ 85(9'
?n7-2 6(8 '4 'M' <'
?9 57 8<'
? - '9 4 ' '921'
>'6' ; 1-(
>v (8'> 2 2'F 66 2'
>n - 0 4 837'4 ' 66
>(1

>S-- 832 'L < 2<'
E' 621'4 'T'4-' 9 (<'
A'9'C(7'8'A(,'
A'8'<2' C'7'<2(' G('
8<
A'8 -'4 837'
A'(,'4 'M 8 ' ,'
A'(,'4 'T'C'<7', ' '
A'17-' - 'D< 8'1- ,'
A2'< 9(82 ' 4 ' F(J'
'1 ,'
A #(8'\1-'9' n 211'(,'
4'6' 83'4 -'
4'62'4 'A(02 -'
4'8<29'8'4 'A(02 -'
4' '<D< 8'1- ,'
4'3 < "79'< : 7'8

47'7'" '9'
47'7' '7'8'
47'7 47'
47'8 ' 12--' '3'88'-7
472 2 "K
4
4 782 ' '921'
46229'8'4 'R 66 ' 9'
49 -7' A 57' < E' <'
4-2J' -'4 'E(8'6<'
4- '572 '4 ' (78'
4- '572 '4 'A 57' <'
4 ' < M(J6'7
T' 7-1 83 '
T'8- 'T(#'
T2 389(-7' \1-'0' (8'
T7(9'1' G2(32'
T ##(,('4'7 0'
K9 '' : 7'8'
'-1 --' -' ,28 '
'1'3' ' =1J ' '
F7'8<''
'9'<- -''
(<2 17'8 ' ' G(J '
17' '-'
R' -0 -(8'4 'A(02 -'
X' 0' : 7'8

] ' + E

] = $'!' -A ' 2 0

" 1 3'J"D '9 6 .'
E 17 <(
L8(9(-(' 15(8-'
, ' '17 5(8-'
=8(2'9' n 211'
=-'3' '5(8-'
=-(' # 852'
=J' ''# 852

: '-(' ' ' ' 69'
: '-1 ' ' 9 ' n ('
: (<'---''5(8-'
: (96 ''5(T 8-'
. -(C '5(8-'
C '-1 '-'' 9' 5- 211'
C '<('
C -1< '5(8-
C -18' -('29'?- '
@(36'5(8-

@(B-6'9' n 211'
? 0?'T(17696-1 '
? 8'5(8-'
, ''# 852'
4'63?'T' '9('
4' a=:# 852'
47(3 8
T(3(''<9 '6' '
T(K3'J"D '9 6 .'
X'9'3'-''# 852'

] U &!' -A ' ' I 0

D422' -72' 8<2' !% ' %+' 'c' (#0 #) ' '8<' # 8:! ' cc' + #
$ '' #E

#',
"3 ##'' ' 2 (<'='
"3 ##'' ' 2 (<'=='
"62W'8<2' E'6'1'
"62W'8<2' '88'2 '
"8- 429 - 19'
"19(#2 1'
"11<2'84'
E' 5((727'1

E(1-'?' ' ' -F'8 1'
F' ''6' "8-(8'(' I2 ' 2 1'629'
C'55'0221'
C' '8(
C2 '#'A(-7280 '
C28'1127'028'=1 '26'
>'621- 82
A -8' 'C <2
T2 ' 7'
B (E -8'

M'9'15 1
EW66' (7'
G72--('
, '1<'' =08'47'#'' -'
, 2 (<
, 2 B6'T72(<('
, 128'0' 28

E'6'17'
M211 1'
O'90 121'
?7(1 (21'
F 'W' 21'
F 1'D=''8<== .'
M' 1'D= t=.'
M2 (521
, (9 B<'D 831.

: ' '<7'D=''8<'== .
: B 60'1721
C B' ' 2< M 8
@' 121
@'1 2< M 8
>' 1'-1

>2 SB
>2 1 1
>7' 8'0'B 1'
4' -' <1'D< 8'1- .'
3'9'8 <1'D< 8'1- .'
4'11'8 <'D< 8'1- .'
4'- '#
47'7
47'# 'D= === .
48n2 < 1
T611'#7290 21
X' <'821
(6(3'2121
(8(821
2 W21'
'B<232 <

' = "!' -A ' ' I 0 '3 H

. !

"0 11 8 '
"17'8-
E' 0' '> '-21'
F(83(' I 22'4-'-2'
M2

L - 2''
>'-69 -24'(' I '- 8 <21'
: 02 ''
C'7<6'
C ((55('
@ 32 ''
428K14

4(9'76'8<'
T=90-n -'
T6290527
T #(6
T 8 1,''
R '<'6'
Y'8B 0'

F72(#1'
F62(#'- ''
F-(92 ' 1-'2' 6'
L9 8'>'17''
, 5 1' R 66 ' 9'
, 1(1
=0 '7 9'>'17''
=19'6
A67'K ''T72

: 72< 2'
C'7(992< DT72'
C'7< '
C2729 2-'"7'
C2821'
@62'E'--62'('-72'
@ 0''>'17''
>7' ''(7'
>1'9 92- 57 1'

>-(629 21
A7' 9#1962- 1
A 'B'>'17'
421O4- 1
472 6'>'17'
46 -('>'17'
4 <'8
T2J 6'>'17'
Y(72 'E'7'9'

3"| f! I 0

"0< 26 "B B'= '
"0< 26 : '<2',
M7'861' I '85 1'0' ?8'
M(<<1' "66 2< " 9N<N2

G(6< 2'4 'G2(3'
(784-F8'4 ', 28 ' , '
: '4 ' (78'
; 3'-<'4 ' I 2<' 2A'

C 28262766
> 21-2' (78
A'0' -'Y(026
A'8' ' ('===

3 C "' $C $"'! -A ' ' I 0

. ! ' 4#

E((57 1'
F' -7'32'
L-7 (#''
, '9 65' 'E' 5'

, '88 0'6'
, '88('
, '1< --0'6'
, 29#1' ' D 831' ('
@ 96< '.
0' D& 831.

3 T-7'
C'3(
C'11 8 11' '
C' 2-' '
@ 8 6<6'

' = "'! -A ' 2 I 0

%")

"00'1'='
"00'1'==

"62W'8< '

"# 21'
" '0'>'17'

"1 K("'D '# 8521121.'
E' 2 >0 (0'' 8521121.'
E2 ?#n?2 D0 # 8521121.'
E 1 64

' I 0

e 2' 57 1'
WX' 928 ('
>2 <655'1'
>(6 #2 57(8'
A(W'8'
4262 56<'M 8'1-
T7'S1

& '! -A ' ' I 0

&# ,

"00'1'=
"00'1' C6 B'
"57'29 2821
" 0'521
" <'17
" 1'521

" -'0'8 1'
" -'#72 9 21'
" -'W2 W21' D= === .'
" -2 9 1'' D<' 37-2' (
. 3<'9 1.
E'3('1
E'7 <9

E'6'17'
M211 1'
O'90 121'
?7(1 (21'
F 'W' 21'
F 1'D=''8<== .'
M' 1'D= t=.'
M2 (521
, (9 B<'D 831.

: ' '<7'D=''8<'== .
: B 60'1721
C B' ' 2< M 8
@' 121
@'1 2< M 8
>' 1'-1

>2 SB
>2 1 1
>7' 8'0'B 1'
4' -' <1'D< 8'1- .'
3'9'8 <1'D< 8'1- .'
4'11'8 <'D< 8'1- .'
4'- '#
47'7
47'# 'D= === .
48n2 < 1
T611'#7290 21
X' <'821
(6(3'2121
(8(821
2 W21'
'B<232 <

$B 'f I 0 '3 H

E 26' ; 2861'
A(0 81(8'4 ' (78'
A(11' G2(32' R 66 ' 9'
4 6#5(2' (78'G ' 21

M- '57'8' (78'
3- '-75(8' '0' (8'
4 <287'9'\1-0' (8'
T7(9#1(8'4 ' (78

T 662 ' 4 ' 4'9>26'
T###2 ' 4 ' F7' 621'
'8' (92'4 ' R 66 ' 9'
'1(8'4 ' M'8 26'

$ " ' " " &'! b

"6'0'9'' " 0 - '- (8'
" -6 I2<2 '6 1-2'
"7- C'1(8 5'>' - '
E2 83 42'' " 0 - '- (8'
F' #2- E'332'
F6' -(8 E TJ 'T 2'- '
F(9# (9 12'C2'1 21'(
\ $
F(8 2<2 '-2' 4-'-21' (
"92 5''
F(8825- 5 -'
5(##2 72'<1'
F 69 -' C(0C 2' (
"7W2 5
M2# (5 '- 5'>' - '
L625-('6 F(8K(6116(8'
I' 92 1' C? 2928-
I2<2 '6 1-'>' -

A-22<92 1'EK=2'8'
I (2'4(6'>'--'
I 3 - 2'46',2';'J1'
G2 9'8<2'
, (921-2'<'#<' LW29#g
- (8';'J1
=8<2#28<2852 ' ;2(6' ''
'- (8'(
=7-2 1-'-2' F(992 52'
9 37-1' (' -72' G(6<28'
F 562
: #(J'@(-783>' - '
: >' ; 6 W' ; 6'8'
: '0('M' '
; 02 - '>' - '
6(00 83'
; (1 '8''> -57'12'
: ('6 1-1'
C' 6(J2

C29('6M' '
C 11(' F(9# (#712'
C(66' C'3 21'
C(# (2'M((-- #2'
C 3J 9#'
: 2R'X'('F - '
27 (' F(9#'#'
E'8'' 92 5'# F(82'
28521
>2881 6 '8 ''
A2# O6 5'8'>' - '
T'99'8 '66'
T7'8 13 83'M' '
- '# (8' ; 2'3 2' (
'#82 2,''
R'17 83-(8'M F'
CT 63'>' - '
R 7 1 '=81 25-(8'
X'8 22

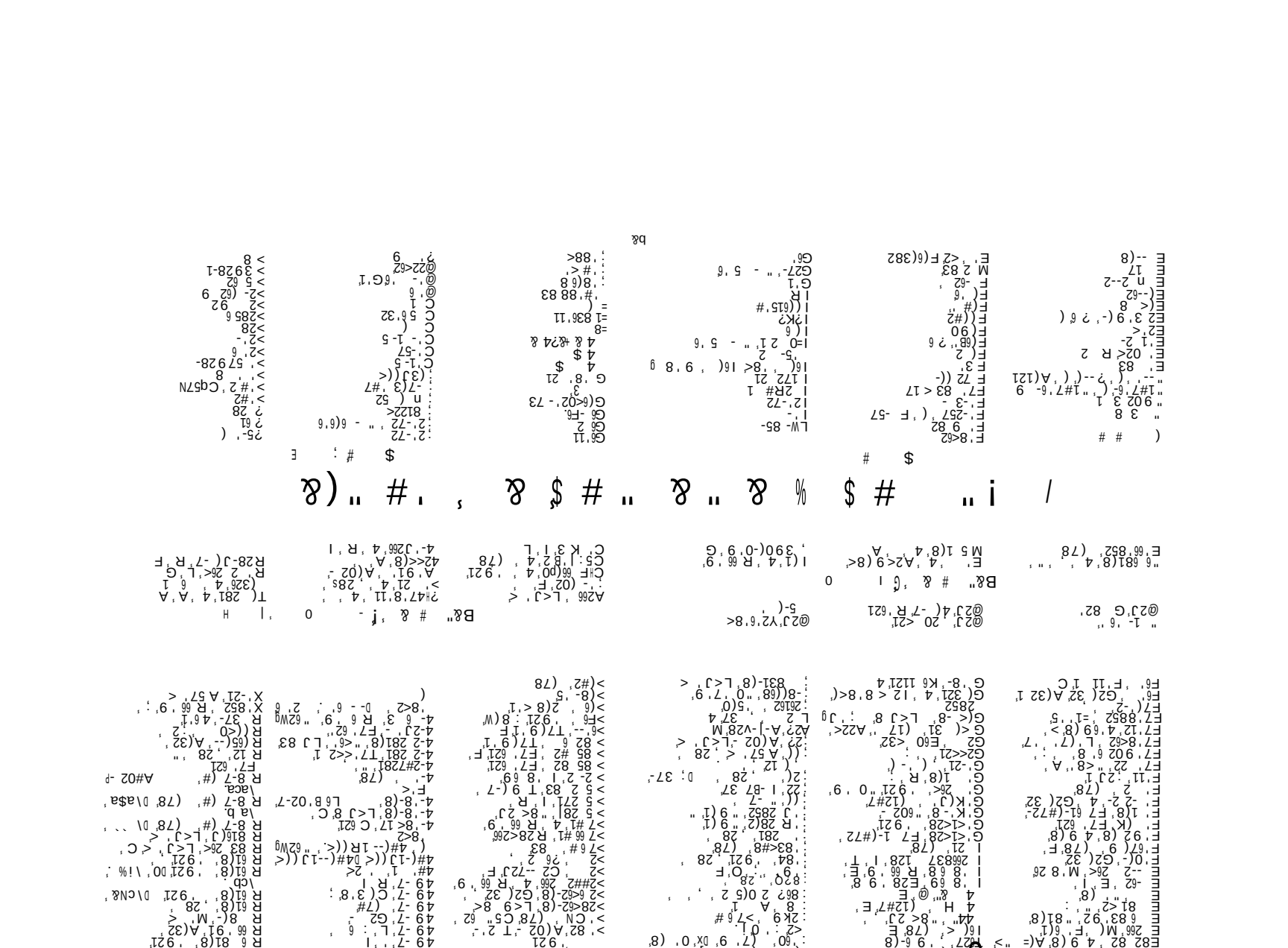
$ " ' # " &!' '2 ' ' I

" 92 5'8'F 6- ' '
" 92 5'8' R ' '('=8<2g
#28<2852
" 92 5'8' R ' '('\`\&
" 8-62-'9
" -6'#-'
E 'K< J682
E 66' A 8
E#K 2 '
F'> <28
E2<''F 22 ' #'
F7'8(266(1 662'
?7'-621-(8'4 ?'
F7'--'8((3'' T2#8'
FO62 ' 9'' 3'' F 22 ' ?

M(#261(8'I(-'
L -'J K62'
Lk '?' 1' ' '
I 2<2 5 10 3' ' '
G2 9'8-(J8'
G2-- 10 3'>''
2 1' I2 ' R ' '
: 83 1' C(8-'8'
: 2W 83-(8'C('
M(83=16'8<'@ X'
" 2-- ' G4'
C(89(-7'
@'17 662'
@2J'? 62'81'
>2-2 10 3'F'# #' 38

4' 8-1'E'--62'('-72'
4' '-(3'' E'--621'('
42 28'M' 1'E'--62'D\4E&'
4728'8<('7 '662 F'9

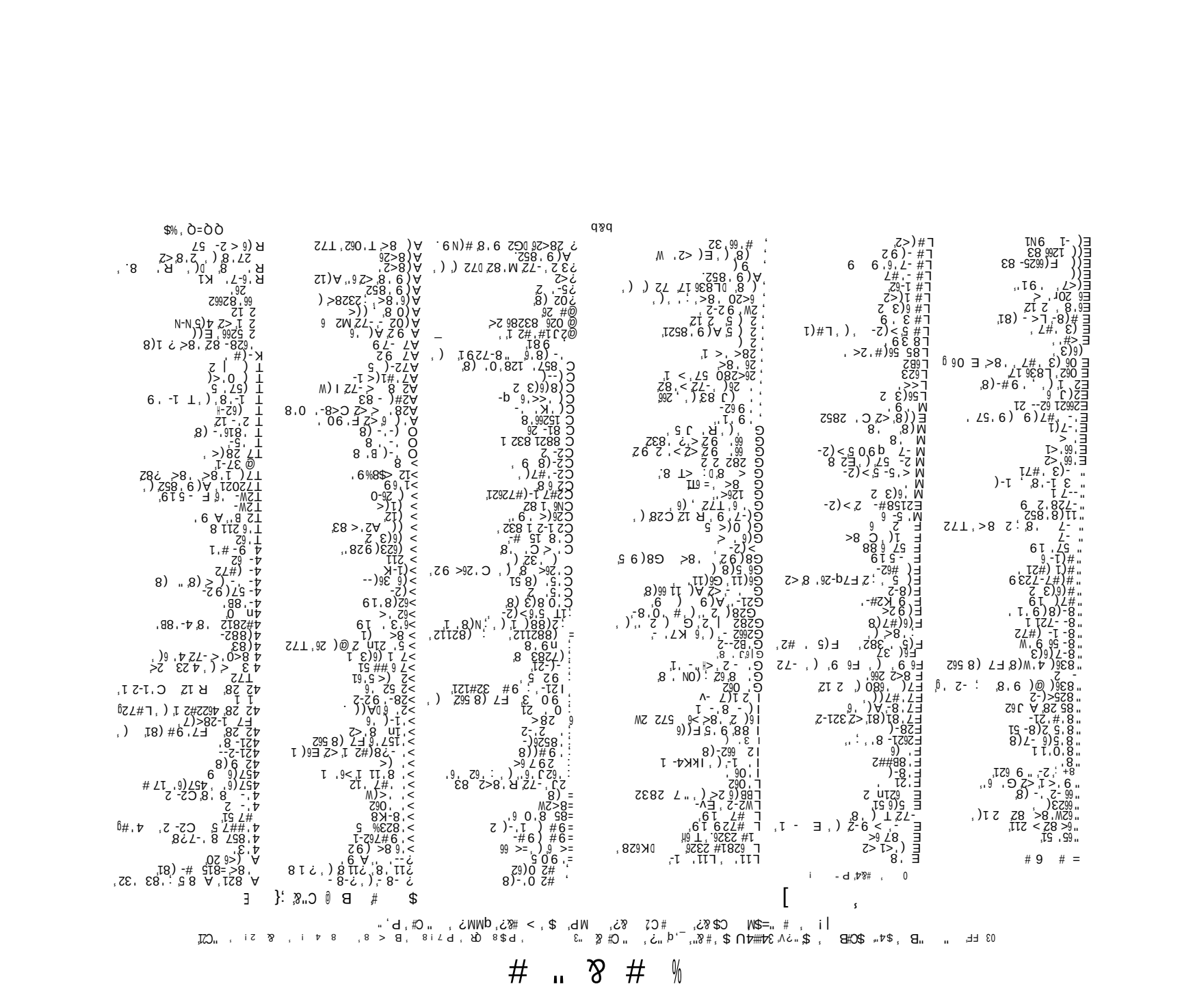
47 6(7
4#'8617,"92 5'8' R'
?-'\`b``
4-(#2'A 2'
T65(8<2 (3''@ X'
T 2#-(8 '8<'> 852-(8'
X6(10 3' C614'
R 6<2 8211'' '
X(-(J8' '



. & . ' & f (% &% 0 #

D422' '61(' -72' 3'6'125- (81' ('-72' ' - 56|1' (8' F(8- 21 .

```
                                                
```

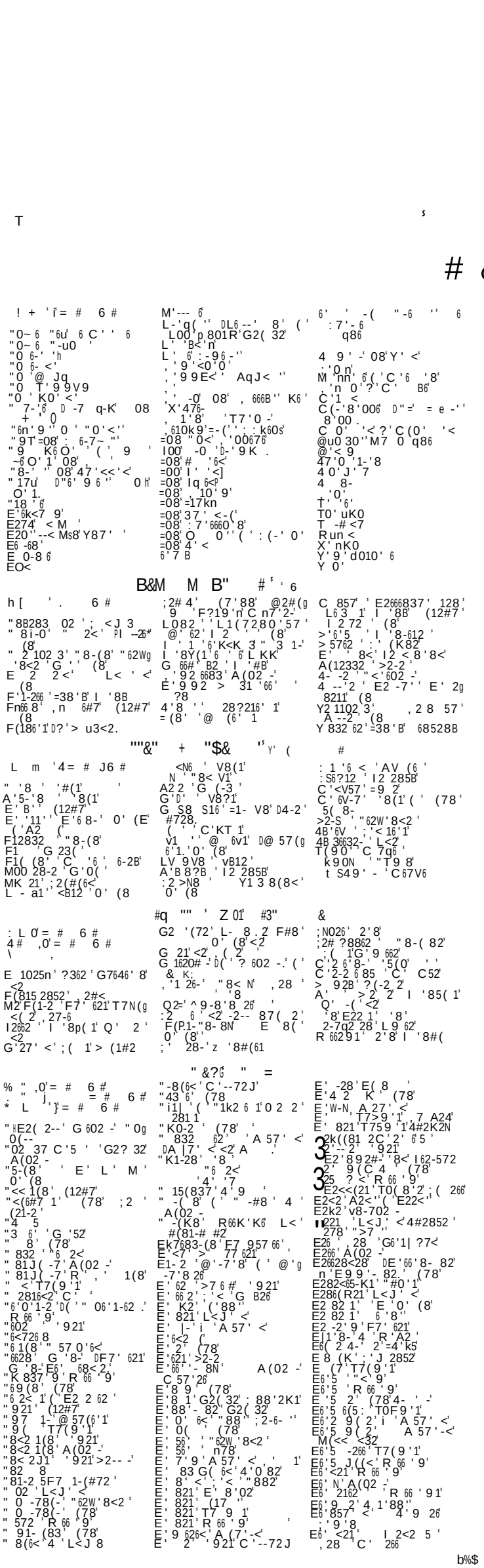


T

& "

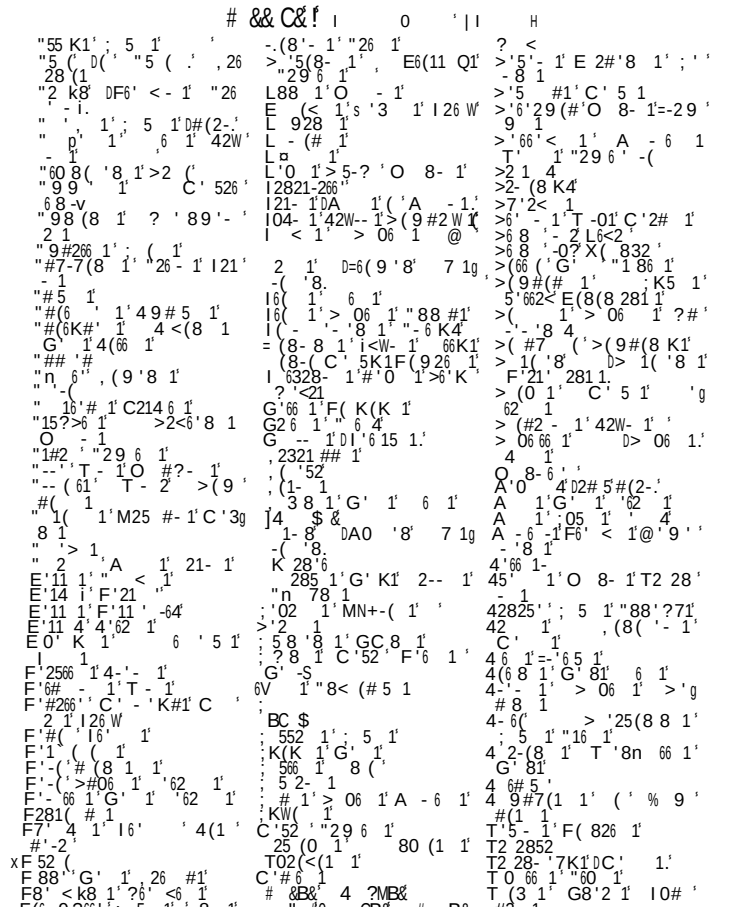
B&M M B" # 6

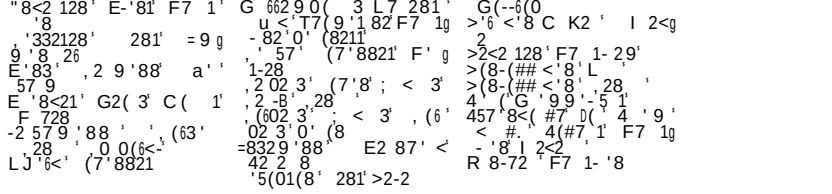
"'&" + "$&

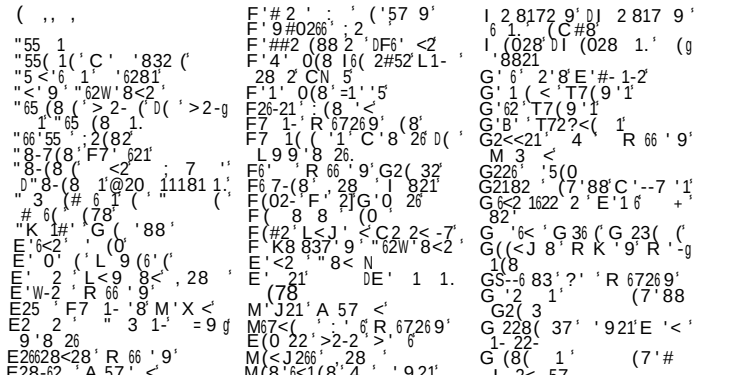


0 # & "

1 # & "







1 # & "

b%

& "

$C ' ; E

4 6 21- 2' <2' '5 '
"8-(82'=1''5'0' (8'
4 9(8<' '5n 21'
4(26'"602 -'
4(26' F7' 21' 1 2 ' <2'
4(38
4(6' (1N#7 8
D (12#7' C' 2.
4(92- '"62W'8< 2'
4(21- 2' L 9 62'
4? B'' 'E(-267v' "'
l 662 6' 9 n 12' <2'
4-''6' C' 3 2 -2' 2'882'
+* < 2' M26' 8'
0' (82'<2'
4-' 6' C'<' 9 2' <2'
4 2' L 3|82' D (12#7'
C' 2.
4 >- <7(9 8 62'A28N'
l '8p(1'' 9'8<'> <'
7#9 72
4 662' F6(- 6<2'<2' '
T' 66'8< 2 '4' 8- A2~N'
T' 82' , ##(6 -2
"<(6#72
T'662 9 78-' GN<N(8'
1 2 ' <21' AN' W'
T285 8' F6' < 2' "62Wg
'8< 82' G N 8' <2'
T7N(#7 62' DT7N(#7 62' <2'
' (' <'
T72 2-' F6' <2' "<'
7N9 ' "8< N'
T7 0' -' DT72(0'6<'= '
5p 8-' (' F7'-7#' 82'
'8< E 2'
T7 2

T7(9 '1' > 2 2'
T7('5n 21' " 3 1-2'
<2
T 11(-' > 2 2' I '8p(1'
T(5n 2 662' "62W 1'
28 F7' 621' C' 52'
F6N 26'5(9 -2 <2'
T(9 2 2' 8' C' 52'
T 1-' 8' T , 2 9 -2' I '8'
p(b
T' # 8' ' 570#' ('
A2 91
T # 8' I '8p(1', 28 '
K60k57' : (1'
K N' ,(8(N' < ' 9' g
n 1' <2' '60 (9 2
5(-2' <2' F7g-2' 92 '
'5n 2 2' " 3 1-2'
'6621' 621
'6(-v' ,28 ' <2' D '6'
21 1.
'#2 2' : (1'GW 1-' 2'
' 326'1' F6' <2' I' 2'
' n 26'8' <2' 6'' I 21'
8' 2' 2 8
' 28' 21' ; 5' <2'
F6'# 2 1' 9 'sn 1' <2'
282--2' 2' 8' <2'
2 6' 82' >' 6'
2 9 (26' " 3 1-2' 2'8'
C' 2
2 82' 621'
N (#' ; (1' MN1 N'
N (8' > N 2'
2 ~6 ; ' ; (1'
5' 2' ; (1' Gk0 26'
F7' 621

N6N G 68' I '85 1'
38 ' "6 2< <2'
6627' <(8' G2(L ('
<2
6629' 8' "026' I '8g
p(1
66 2 1' <2' =T162 "<' 9'
>7 6 ##2' " 3 1-2
C'-- '1' 5(9 -2' <2'
66(8' I '8p(1'
8528-' (' E2' ' 1' ('
8528- 1' E266('
5281 1
82- "62W'8< 2' A (g
<(6#72
(662-' >' 6' C' 2'
-2-' ; <(5'
(3~N' L 3|82' C 26g
57 (' 5(9-2' <2'
(128(8' F6' <2', 28 '
<2' I BN2''00N'<2'
(- 2' 8528-'
(682 ' F(81-'8- 8'
I '8p(1' D% '1120© '
5(9 -2' <2
(6-' 2' ' I '8p(1'
C' 2'' (2-' <2'
R'52' D' A(02 -'
R#66(8' ,28 ' "62Wg
'8< 2
R 66' 9' (' I '83 '
R 66' 8' (' >(-2 1'
R 66' 9' (' T 2'
R 66' 9' -72 E 2-(8'
Y(6' L 9 62' L<(' <'
F7' 621' "8-(82

$'' ; E

: 8 26' (7'88' G(--g
2<
: 6' ' (7'88'
: 629' 6 1' ; 2(#(6<'
: 62 1-' E2 8<' , 2 8 57'
R 67269' (8'
: 62 1-' L J '6<' F7 1- '8'
(8
: K832 ' I 2< 57' C ' W g
9 6 '8' (8'
: 6(## ' ? 8('
: 6(#1-(5 ' G(--6 20'
I 2< 57
: 82026 ' ' =' ; <J 3' (8'
: 8 332' "<(6' I '8B'
I 2< 57' I 2 72 ' (8'
: (# 157' " 3 1-'
: S 82 ' : ' 6' T72(<('
: (-B20 2' " 3 1-' I 2<g
57' I2 < 8 '8<' (8'
: ' 8-B' D#' F '8-B.' "6g
02 -
: B' , 2 9 '88'
; ' 902 -' (6' , 2 1 26<'
; '83' : ' 6' , 2 8 57'
A --2' (8
; '832' 91-' >7 66 #'
; ' 6
; '##2802 3' (7'88'
C' - 8
; ' 02' 2 8 57'
- (12
; 288' (0' C 57'26'
A2 80(6<'
; 2(' 2 8 57'
; 211 83' G(--7(6<' : #7 '
'9
; 2J '6<' I '88 '
; 6 285 (8' M2-62 ' (8'
; 8<' >'8'
; (3'#' I 2< 57' I 2 g
72 ' (8'
; <J 3' ?--('
C' 66--' L
C' n <-' ('57 9'
C'--7 11(8' I 2< 57'
(8
C' 280 2572 ' : ' 6'
>2-2-' R 67269'
C' 2' G2(3' ; <J 3'
(8
C2 0(9 ' , 2 8 57'
C28B26' R(6 3 '83'
C2 5 ' (7'88', 2 8 57'
C(9 9 128' T72(<('
C(7(' M'8 26' G2(3'
CS 2' L< ' < ' I 2<g
57
C(-B' : ' 6' >7K6##'
C(1(72 (1(7' (7'88'
C 57'26'
C(128' 6 1'
CS12' 1- 1'
C~K2 ' I 2< 57'
C~662 ' R 67269'
C~6682 ' " 9 '8< 1' G(--g
2<' <(6'
C 8<-' T72(<('
C 82 ' T7(9 1'
C 1u 1' (7'88' : ' 6'
" 3 1-
@2'8<2 ' ('57 9'
@2 9'88' : ' 6' I 2<g
57

@ 5(6' 'F 7 1-(#7 I 2<g
57
@ 20 7 ' E' -7(6<'
G2(3
@(<' ' C ' W 4 9(8'
@(' 6 1' DE 2< 5K ; 2(g
#(6<' I 2 72 ' (8' ' g
<2802 3.
?# -B' (8' E(02 26<'
C' - 8
? -B28' G2(3' E' (8'
(8'
?--((' I 2 1 83'
>' 6' A2 87(6<'
>2 -721' I 2< 57' F7 1g
-(#7
>2 -B' G2(3' 2 8' 57'
>2-2' (' M 10'
> 2 2' I '8B'
>6' -28' , '662 9 8u' " g
3 1-' G ' ' (8'
> (288 21' ; 12' (8'
>S668 -B' : ' 6' ; <R 3'
I 2 72 ' (8'
>(--7 1-' " 3 1-'
> -B' ' 81'
> -B' A(02 -' L< ' <'
>n5 62 C' ' , 2 g
9 '88' ; <J 3' , 2 8g
57' I ~ 1-' (8'
> 6-6 -B' G 1-' ' , 2 8g
57' G' 81' L<62 'B' ,
A' '02' R 67269'
A' 0282 ' G(--6 20' R 6g
72 69
A' 962 ' : ' 6' R 6g
72 69
A' # 2' ; 2(#(6<' (8'
' '|#2' A <(6' L 57'
A' 92 ' I 2< 57' ; <g
J 3' G2(3' (8'
A' #' 57' L 81-' E28 'g
9 8' 4 '6(9(
A2<J -B' ?1 ' ' I 2 g
72 ' (8
A23 8(8' (' A 3 8(' (
> ~ 9
A2 9(, ;' "6~ 2<' (8'
A2 -2' I -B'
A 57-2 ' (7'88' >' 6'
I 2< 57'
A 1-' (7'88' (8'
A~5 2 -' (7'88' C g
57' 26' I 2< 57'
4' 571' ' 81'
457' 5 ' "<(6' I 2< 57'
G ' ' (8'
4572 2 ' ; 2(#(6<'
4572 26' (12#7' -('
(8
4572 66 83' : ' (6 82'
4572 2 ' R 67269
4572 ' (7'8821'
57 K2 ' (7'88' F7 1g
(#7' I 2< 57' (8'
4576 2326' " 3 1-' R 6g
72 69' (8
4576 2326' (7'88' L6 '1'
4576 2326' : ' 6' R 67269'
I 2< 57' (#
4576 (112' 2< 57'
F7 1-(#7
457 SB2 ' " 3 1-' ; <g
J 3' (8

457 9 <-' , 2 8 57' g
6 '8'
457 9 <-' R 67269' "<(6'
457 0' -' F7 1- 8'
I 2< 57' M'8 26'
457~5 83' ; 2 8'
42'61 26<' F7' 621' D: 6'
"8-S8' >(1- .
425 28<(' 2 -' ; <g
J 3' (8
42 92' (7'88' G(--g
2<
4 9 (5 ' ; ' 6' (12#7'
462 < '8 1' (7'8821'
4# 267'328' I 2< 57'
(8
4# 211' F7 1- '8' , 2 8g
57
4# 832 ' "8-(8' , 2 8g
57
4-2 8' F7' 6(--2' (8'
4- 8<2' 6 1'
4-(602 3' I 2< 57' ; 2(g
#(6<' G ' 'B'
4-(9 ' T72(<(' R (6<'
128
4- '57J -B' C(-B' ; ' 6'
R 67269' "8-(8' G ' '
(8
4- 9' 6 1'
4 <2 9 '88' , 2 9 '88'
4 026' , 2 8 57' (8'
T'887u' 12
T7 2-9 ' ' DM 2-9 ' ' ('
M -7 9' ' (' C2 120 3
7(9 '1 1' F7 1- '8'
7~9 926' C(-B' " g
9 1-' (8
T 25' ' (7'88' ; <J 3'
T 2 -157 2' , 2 8 57'
(8
T -729 1' (7'8821'
Q 76'8<' (7'88' ; <J 3'
[B' (7' 9'>2-
' 9 7'328' (8' L812'
: 6' " 39-
157| ' I 2< 57' T72(g
<(
(11' (7'88', 2 8 57'
(11' A 57' <'
6# 1' F7 1- '8' " g
3 1-'
R' -B' G2(3'
R' 6-72 ' (8' <2 ' (326g
J2 <2
R' --2#0'57' R 67269'
R 25 72 6 8' G2(3' A g
<(6
R2 82 ' I 2< 57' ; <g
J 3' Y' 57' 1'
R 5 ' 9' S 3' (' G2(3'
R < 8<' D(' F(2 '
R 26' 8<' F7 1-(#7'
C' - 8
R 60 '8<-' " <(6'
R 6<280 57' L 81-' (8'
R 8 26' 9 '88' L< <'
R (6 ' 9' (8' L 15728 '
0' 57
Y157(2' (7'88', 2 8g
57' M' 8 26'
YJ 2<2825 ' (8' 4~<28g
7(1-' , '81

3

e# ' # 6 #

"026 8' (7'88' >7 6 # #'
"5 2 9 ' 88' A <(6#7'
" ##' (7' @2--|1'
72 8' ' , 28' ' F(#26 #1'
"60| 1' L '17' 1'
"624 1' R 66 0'6<'
"61-2<' (7'88' , 2 8g
57
"85 66(8' (7'88' >2-2 '
I 82< (7'
"83 602 -'
" 57287(6B' (7'88
R 6726 #' (8'
" 8<-' L 81-' C(-B'
" 8 9' L 6 1' 02-7' DE2-'
-82-' (8
" 9 9' ; <J 3' "(7 9'
(8
" 2 7'57#' E2 -7(6<'
" 28- 8 4'
" ' ' ' ' ' '0(0'
E' '- 2 ' (7'88
>7 6 ##
E' ' # 0'57' A <(6'
E27' R 6 ' 9' (12#7'
E282< W' 6 1'
2 57
E2 8' 2 ' "3821'
E2 9 1-2 8' "' (8'
E(<281-2<-' I 2< 57'
C' - 8' (8
E53' -B ' : ' 6' , 2 8-'
57 (8
A(792 ' (7'88' I 2< '
57
E(2' , 2 7' 57' F7 1- '8'
E' 81 A' ' ; <J 3'
E '8-' 420' 1- '8'
E 2<(' G(-- 2<' G'0 '
26
E 28-'8(' ; 62 9 281'
E (5721' E' -7(6<'
57
4CH? B&' C?'
" 8(6<
4&C?' gv"4 "A'
B$? ' $ ''
4""3 ' BM

E 157' 6 1' , 28#' 88'
C(-B
F '8-B' I 2< 57' A g
<(6' ; <J 3' I 2 72 '
(8
F7' 9 11('" <2602 -' (8'
F6' < 1' C '--7 '1'
F6 J2' DF68 2' F6 2' '
F 2 `*' >7 6 #'
F (8 '<(' R B0 3'
F (--'' D' 9 6 .
E' 57' 4 9 (8'
M' 769'88' I 2< 57'
F7 1-(#7
M' 78' 6 1' 4(#7 1'
I 26 W
M2 0 5 ' , '81'
M 83261-2<-' I '8B' (8'
M (1-2 , ~617(' " 8g
82--2' L 6 1' 02-7' I 2 8'
(8
M (128' (7'88' G 1g
-'
M 9 962 ' L 81-' ; <g
J 3
M 85 2 ' 'C' W 9 6 '8'
R (6 83

>~8-B2 ' (7'88' , 2 8g
57' (12#7
L 02 7' <' F7 1- '8' " g
3 1-' G(--6(0'
L 02 -' I 2< 57' "<(6'
L5 2 9' 87' (7'88
#2-2
L 5728<(' (1N#7'
I 2 72 ' (8'
L 87' <'
L6B2' : ' 6
L 8326' (7'88' ' (0'
L 157' (7'88' 4' 9 26'
L 1572K0 3' (7'88
('57 9
I '6 ' (7'B#' M' 8 26'
I '6 2' (7'88' I 2< 57'
t (--6 20
I 'K 9 2' ' (0
I 157' ?7'87'
I629 83' >k8=
I '6628' " 1-' D" <(6 .

I 8-(82' T-2(<('
I 1-| ' I 2< 57' F7 1g
-(#7
IS 1-2 ' (7'88' G' " '
I (8n8N' I 2< 57', 2 8g
57' : ' 6 <2' 6'' C'(--2'
#' (8'
I ' 276(0'
I -(6<' 8 'D <'85.'
IT2 6 3-'-7' I2 < 8' 8<'
I -(-(4 'G 1-' '
I 1(76f.' >7 6 ## @6 ('
<29 I'
GS >2-' 9' 8826'
G26 2 -' F7 |-' 8' I ~ 57 '
-#3(--
G2 7' <-' >' 8'
G2 1-u(2' I 2< 57'
GR1-2802 3' , 2 8 57'
R 6729' (8'
GN 881' G2(3' G(--'
2<
G S 2' " 3 1-' I 2<g
57' j
G 2120 257-' R 67269'
(8
G6#<2K' " 8-('
G6' 110 2882' " <(6'
G6278' (7'#8' R 6726#'
; < 3
G(2-72' (7'88' R (6 g
3' 83' (8'
G(6-B' E(3 9 6'
G(6-B' F(69' ' I 2 72 '
(8' <2
GS7 21' (7'88' (12#7'
(8
GS--2' I 2< 57' R 6g
7269
G(-- 2<' (8' 4- '11'
08 3
G(--1(7'66' A <(6' (8'
G(--1572<' (7'88
F7 1-(#7
GS-B' (7'88' @ (6' 1'
G '002' F7 1- '8' M 2-g
57
G '2-B' , 2 8 56'
G 23((1' I 2 < 8' 8<'
G 9 9 2627' 8128' , '81'
' (0' F7 1-(62' (8'
G (112' 6 1' R '6<2g
9 ' '

G #-7' , 6' 81'
G 72 ' (7'88' G(--g
2<
G %*#76 ' ' "8< 2' 1'
G~8-72 ' (7'88' F7 1g
- '8
G -B (J' : ' 6' I 2 < g
8' 8<'
'5 6u8<2 ' I 2< 57'
'R 67269' (8'
' ,'32<(8' I 2< 57' (8'
' ,'#8 ' ,'78'=<' '5(8-g
211' (8
' ,' 9 926' I 2< ?7' g
'6 1
' ,' <-' ,2 9 '88' (8'
'<2
' ,' 1<S 62' G2(3'
' >7 6 ##
' ,' -9 '88' C(-B'
' ,' -9 '88' (8' " 2'
' ,' ~ 6' R 67269'
' ,' #-9 '88' G2 7' -'
' , - 112' ' <J 3'
' , 20026' F7 1- '8' I 2<g
57
' , 2026' #7' 87' >2-2 '
' , 22 28' " 8(6<' , 2 g
9 '88' ; <J 3'
' , 26326' : ' 6" 3 1-' (8'
' , 2 82' , 2 8 57'
' , 2 #12' , (7' 9' ' (0'
R 7269'
' , 278(6<'
' , 2 <2' (7'88' G(--g
2<' (8
' , 2R8 88' (' A2 5728' '
' , 2 J237' G2(3' '
' , 212 26' (7'88' G2(3'
' ; <J 3'
' , 2--82' , 2 9 '88' T72(g
<(
' , 2 12' #' 6' (7'88'
' ; <J 3'
' , 66(7 '8<' : ' 6'
' , ##26' T72(<(' G(--'
6 20' (8
' , (6-9 '88' " 8 -', 268
(7
' , (9 8' 8K' I 1-' T72(' '
C(' R 67269'
' , S6<2 6 8' (7'88' F7 1g
- '8' I |< 57'
' , (6-(' : ' 6' L< ' < (8'
' , S6- ' <J 3' , 2 8 57'
F7 1-(#7
(9 2 2' : ' -' G 1-' '
(# 28' 81' (8'
' , (9' ' (12#7' 0' (8'
' (8
' , (J '6<' F7 1-(#7'
L 81-' I 2 72 ' (8'
' , (1 -7'
' , 02' ; <J 3' I 2 < g
'8' 8<
' , 8--| 8' K6 57' (8'
=9 9 N 9' 8' : ' 6' ; 202g
257-
'5(76' (7'88' G2(3'
'81128' (7'8821'
28128' R 67269'
(26' C' 8 26'
(<' 8' R-(26
(1-' =1' ' 7' C 1'
83' (7'88', 2 8 20'
: 2662 ' G(-- 2<'
: 2 82 ' 1- 8 1' " 8g
< 2' 1' F7 1- '8

$ $' $ ' ' C' " "B

0 ' #&4' B$ ') 8 3 3 , ' < 7 ! " (7 ' : , "! 3 ! 8

, 20 2J' . # 6 #
. # " "# '
. = # 6 #
* '= # 6 #

"0282B ' "D=08' LB, ' :'
"3#'-7' 8326' "3'-7 '
'832' ('" '-7' 8 26(1'
"1129 n' 6' A' 9 K ' '
E' ' 20 '2 1' (' " 0 6'
I ' '

E' 1' 66O'
E2<' 21' X2<' '7'
E2 2 7 '7' @' n<' 8'
M2782< 3(D' 8 6 '
M2 280(7 3' (12#7'
G(<(8' ; 2(8'
' 62' <' 7' 728'
' 4' 9 26
' B' <' 7' 728'
' 4(6(9(8
=9 9 8 26' E2# 4(6(9(8

(12#7 1' I 6' 1'
(17 ''-72 4- 6 -2'
(1 ##(8
' BB' --(' C(121' , ' 69'
C '# ' "0 7' 9'
C(121' (' F7(282'
A 00
A'#(#(-' 4' ' -'
4-((6281 8' >2-2B'
4-2 815782 <2 ' C(-B

4## $

: 6 0' = # 6 #

"6-B2 9 ' ' ; 2 J2' D; 2(.'
'8
E22-1 '@ (6' '1'
E 2 D(' R (6 .' L 6 B' g
02-7
E66<2 + , ' RK62--'
E(10((9 T(11' 8-'
"78' ' ; (1'' G22'
- 6<'
E 1 28 X -* F(7 '<'
F]-1' n5'(0

F 292 ' ' (0 1' '8'
M'' F(1-' '=1' ' '
M2 2 'L<J' <M(KJ21'
M2 52' 2 29 '1' <2'
M(B ' A2 87' -' > 2-2'
"872
L 9 96 1' K00n'
A2 -7' A7 8 6''
D4 (28' I '8' > 81-2 2'
G 66' 92
' 2291 2 6' (7'8' '8'
' 2K 98' 71' 2 9 '88'
' 268 2 1' '8' I 2<2

, #(-' > 2-2 'F(826 1128-'
' 3281' 4' ??#'
1-'8- 8
; 2882 #' '5(0' '8'
; 6#<(' C' ' > '32'
>(-3 2-2' L 2 7' <21'
(7'8821
457 9 9 26' , 28<' '8'
4(7 2' >2-2'
T28' : '-2' '8' '5(0'
; (<2J
I (8<26' ((1-' '8' <27'
IS19 '2 ' F' 26

C # $

5 # '-= # 6 #

, '663 7711(8' v8' 1

] f, '= # 6 #
* ,Y

"0 6' I 'B6'
" 9 ' ''4 80'

48('4-? 6' 1(8'
T7(128' O 98

E 7u ; u6'
F7' 8<' E'-<' '
?7'--2 'E' 8 9' F7' 8g
< '

T7v (<<128' (8' .*('
#' 1(8
U163C11(8' G <0 '8<

$

T 6' 8' 6' 8' 6' 8'

; TL - T[ALZ

& "

$%`

2 # & "

$ " " " & 1

$ " " " & 1

&C ## $ 4B&

') * . 0 ( ) *2 -

B

4 =? &

$; #

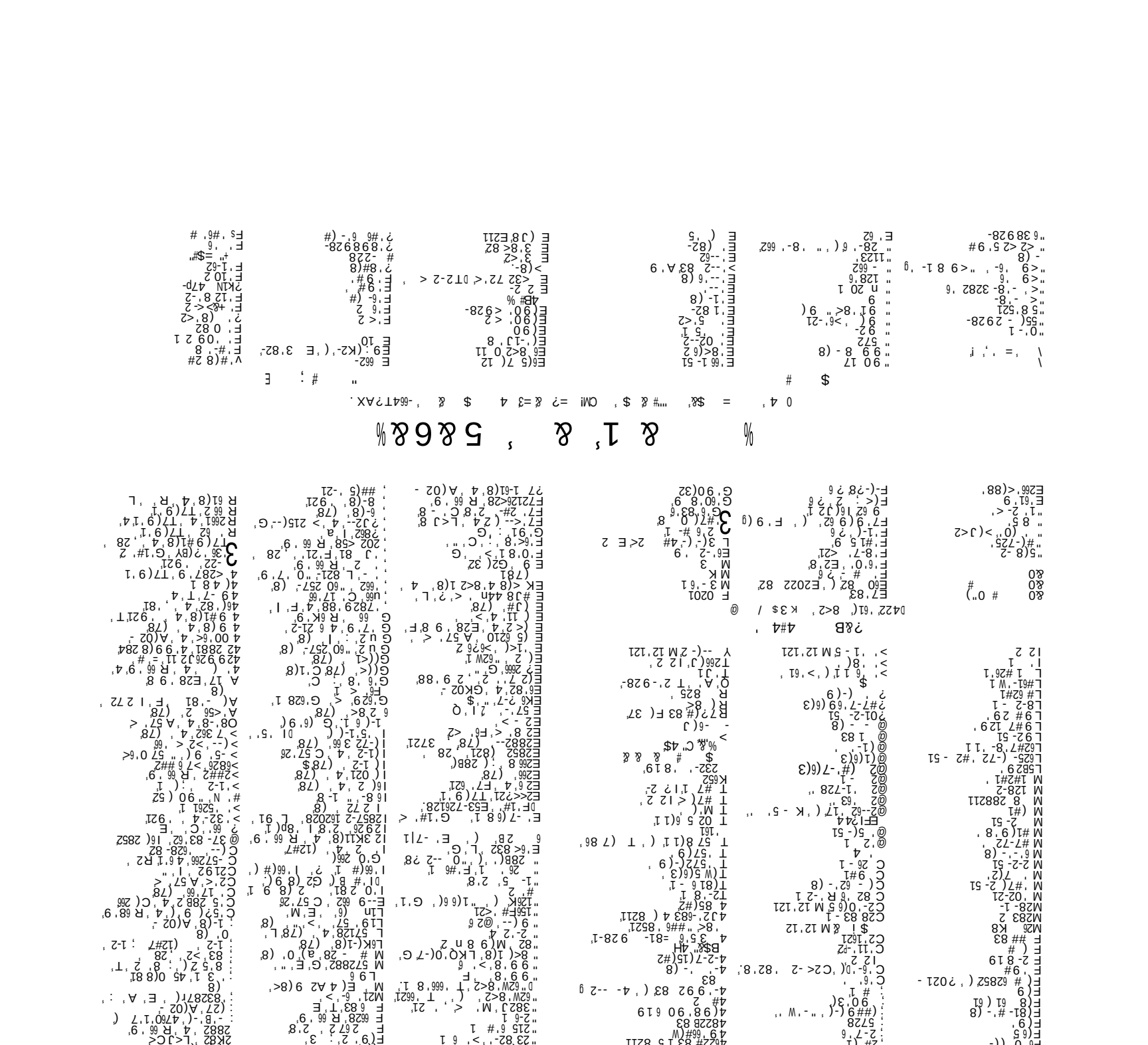
$ "4 ' $? '& 4#4 '

$ "4 ' $? '& 4#4 '

"?4#4 ' ? = B" C& $ B

b%c

QQ=Q '%$'



$ # ! E

F7'1'6#(5
F72 ' W<2 12
F (9 '66'- (8 ,; 821'
('
F6'%T8(2
F('6 83 4-'- (81'
F('1-'M2 2852'
F('1-3 ' C'
F(6(826'
F(6(W 1' C 6 -' '
F(6(42 32'8-'
F(9 '8<22'
F(9 9 '8<2'
F(9 9 '8<('
F(9 9 11'' '-'
F-(9 9(<(2'
F(8<(-- 2 2'
F(815 #- (8'
F(<-2
F(#< '6
F(#1
F(8-2 15' #
F(8-2 1]
F(-' 9'2- '6
F '11'
F '11 2 <'
F -6'11'
M'332 '
M'882 J2 ' (' , ' 2
2
M2 62'
M2#(-'
M
M(5 ' <1
M6 '3((8
L5726(8
M752 #-2
L8 6''<2
L73 #22 1' C 6 -'
L81 38
L#' 62--2
I '15 82
I 0 1-2
I 217 #
I6'317O.
I622-
I6 83 5(6 88'
I(6(8', (#2

I(- 62'- (8' '8<' 4 232'
5', -
I 3'-2'
I 362 9 '8'
I 1 6 2'
G'0 (8'
G'662 '
G' 1(8'
G' 8-62-'
G282 '6
G 83'6'(' 83'6
G6'5 1
G(32-
G '#2
G 22' I 2
G 28'<2
G 28'<60
G ' <1' '8< , 0 127(6<'
T ((#1'
G ' <17 #
G 8
G 8 5(--(8
G 882
G 8#(J<2
G 8 ((9
,'6O2 -', '602 <'(', '6g
0' <
2 1'5 (' , ' 2
'1'5
, 26 (3 ,'#7'
, 26 #2-'
, (61-2 '
, (1-''32'
, (J -B2 '
' --'
: 7', '
: 8(0 2 62'
: 231# 26
: '852'
6' '8<1 82(0-'
; '8<1- 9'
; '8<J27 '
; 23 v
; 82 ' (' ; 82' (' '--62'
47 #
681-(5

C'57 82'G 8
C' (
C'926 2
C'8© 21' C 6 -'
C' 57
C' 821
C' -266(T(J2
C' - '6 ; ' J
C' - 82-
C'-2
C'- (11
C2<'6
C2 528'
C2822 ; 82
C <17 #9 '8
C 6 -' ' ; ' J
C6 -'
C 8 -2 C28
C(' -
C((8
C(1266 2' ; 82
C(8-2<=8 '8-
C 1 2-
C 1-2
C - 8
@' ''8<@' 21
@22<62 3 9
? 652 1
? <8'852
>' (#6
>' '<2
>' '<(1
>2 '66264
>' (62
>' -1'8
>'- (6
>' 61'('>' 612
>2-' <
>2- (826
>2-- (422
>7'6'8W
> 5 2-' > 5-72-' (' >65 '
n 2-
> 32(8'>(1-
> 2
>.1-(6
>6'-((8
>82 '9'- 5'G8

$ 7 E

>(6' <'
>(8-((8'
> 211'G'83'
> (#266'8-1'
> 12
O '< 6'-2 '6
O 2
L'832 68<2 ' T262 9 2-2 '
('>(1 - (8 8<2 '
L'# 2'
L'##' 22'
E'BB '
E25(88' 11'8(2
42<'8
L2<(0-
E23 '9 28-
L2- 28(7 9 28-
EN 2 66N
E 5(272-
E 62
4(5 2-
4'6'<2' 4'662-' ('4'62-
45'00' <
457' (8#
45 9 -'
45(-

42'' F(9 9'8<'('-72
42'' >(J2
428- 826'('428-
42#(
42 2'8-
47 26<
47 #
4 232
4 37-1
4 38'6
4 <'
46 83
4(J'
4#'761
4#2' '
4#(8-((8
4#
4#
4n '< (8'
4- ' 9 6 -' '
4- 62--('
4- '-23 '
4- 26 -B
4 09' 82' C 821'
4 ##6 ' '8< T '81#(-'
= 8-'

4 -62 '
4J(<'
T'#- 51'
T' 32-'
T'--(('
T(#2<'('
T ' 2 12'
T 20 572-'
T ((#'
K6'8'
K8 (91'
K8 -2<' 4-'-21' @' '6
"5'<29
2<2--2'
2-2 '8'
2W6== 9'
1(
(6 8-22 1'
R'' < E((9'
R' 'G'92'
R' '8-'? 52'
R2'#(8'
X'-'37'8'
X2(9'8 '
Y(' 2

" '' > " & BP' $ $ &

"< 2'4 ' (78' C 662 ' "26'8' D"26' '' T'5- ' 281.
"282'1' T'5- 5K1'
"1562#6(<?- 1'
E '69(8-' 28 ' "62W 1'
E 8' E282<2--('
E (81'-' (8' 4572 6628 ' <('>' 6
E6=(R' M2- 6(7' , 2 8g 57
F7' 621' ' 50< 0' ('" 1-'
F72182 ' F7' 621' F(8g J'66 1
F 2182 ' 4 ' G2(32' T(97 8k
F6'812R - ' : ' 6' (8

F(6(90' >7 6 # , (J ' <' F(9(8-' 83#2' ;) 1'<2' M(<32' T72(<('2 " g 6-
I(6' <' 2'8' F7' 621' 572 '6 2 ' <2
G 02 - ''5n 21' " 8g -(82', 6##(6 -2'5(9 -2' <2
8 57' <' : ' 6' G(--6 20' ' 9 62' 4 ' L<J ' <' E 52
' 28<2 1(8' G2(32' ' 85 1' L(02 -' , (7286(72 D ' 9 6 .' #9 8 ' "8-(82', 28 ' 0' (8
;'836(1', ##(6 -2

E(-2 J2 ' I 2< 57'
E '8< 1' D 7 1-'8 " g 3 1-
E (J8' T7(92 1'
E 5 2 ' (7'88' ' (0'
E 8('G (<'8('
E~5782 ' I 2< 57' L' 6' F7 1-'8' ; <J 3'
E 2 'F6' <2'
E 762' (7'88' G(--6 20'
E (8' 2<2' "## '8('
E 932 1< ' (' E8 32 1' <5 1' I '85 1'
E 9 <'8' 2'8'
E -62 ' R 66 '9' " 5-('
F' <' L<J' <'
F' <' (78'
F'6<2 J((<' 28 '
F' 9#'8266' ' T(9 9 '1('
F' 9 57'26' G2 17#9'
F' 82' <21'
F' (' L0 2' C' 2'
F' | 2' C(-B'
F'12' (78'
G2021'D-J(.
F7'6 0' 4' , 2 8 57' C(-B'
F7' 9#2' W' R 66 '9'('
F7' (8' > 2 2'
F7 6(#
F7 1'8-76 1'
F-(16## 1'
F7 00' T7(9' 1'
G6' #' 4' 9 26'
F6' 0(3' (7'88'
F62'8-721'
? 2(0 6 1'
F66-(#'(7K1'
F(66 2 '" -7 '
G?K 84' "#-7(8 '
F(9-2' " 3 1-2'
F(8< 66'5' L-62#82' E(8g 8(-' <2
F(#<(22-' C'C2 2'#
"8-(82' @ 5(6'1' F' T
-'-'9' 3K 1'<2'
F(8 5 1'
F(83 2 2' A 57' <'
F(9 - 1' ; 5 1' "8
(8

1 ((' & ' 78 9 % * 9

$ # ? #4&4=?'' $ ' &'C?4#4 ''!' -A ' | H

>7 6(1(#7
"21-72- 51
L-7 51

L (6 - (8
; (3 (
C2-'#7 1 51

>1 57(6(3
45 2852

? #4&4=?'' "" ' &'C?4#4 ''!' I*6+ # W,

&0u , 0
&, 4 "

"01(6 -2
"01(6 -19
"01- '5- (8
"5'<29 G 22 ' D"5''
<(92.
"5'-'62#1 '
"55 <28-'
"55 <28-'6 19'
" 25- (8'
"2- (6(3 '
"' I(- (
"336 - 8'-,(8'
" ((6(3 '
"38(1- 5 19'
"62-7 (6(3 '
"62W'8<81-1'
"6- 19
" 9#7 0(6(3 ' (' " 9 #7 g 0(6
"8'6(3 '
"8'6 1 1'
"8- 8(9 '
"#(<6(- ('
"##2 52#- (8'
"## 27281 (8'
" R (
" '0 8'>7 6(1(#7 '
"11(5 '- (8' ('=<2'1' (# C28-'6' "11(5 '- (8'
"--28- (8'
" -(9 (#7 19
"W (9
F'90 <32' >6'-(8 1-1
F' <9'6 - 21
F' -21 '8 19
F'1 1-
F'-23(
F' 1'- (8' (' F' 1'6 - '
F7'(1
F 5 6 1' 8'> (0'8<(
F''11 65'- (8
F(38 - (8
F(8'- (8
F(852#-
F(852#- '6 19
F(85 2-2
F(8< - (8
F(88(-'- (8
F(815 2852
F(8- '< 5- (8' > 85 #62' (
F(8 2 1 (8
F(19(3(8
F 8 51
F 28' (1

M2< 5- (8
M2 8 - (8
M28(-'- (8
M2-2 9 8 19
M '625- 5' (' M '625- 51
M 57(-(9
M 629 9'
M 1(8
M 2' 9
M '6 19
M -
M 1-262(6(3 '
L5625- 5 19'
L51- 1'
L3(19'
E62'- 2 457((6'
L6 1' >7 6(1(#7 5'6
457((6' (
L9 '8' - (8'
L9# 5 19'
L8-7 9292

((6' ('>7 6
(1(#7 '
L1(-2 5'
L <'29(8 19'
LW-281 (8'
I '66'5 'D6(3 5.
I'85'
I'-'6 19'
I(9
G(6<28' A 62'
G 98(1(#7 1-1'
, 2' 83'
, 2<(8 19'
, 2-2 (8(9 '
, 9'8 19'
6(B(19'
, #(-721 1'
, 1-2 (8 # ?-2 (8'
=<2''
=<2'6 19'
=< (1 85 '1 '
=9 '3 8'- (8'
=9 -'- (8'
=9 9 '82852'
=9 9 (-'6 - '
=8< < '6 19'
=8< 5- (8'
=8 8 -2'
=8-26625-'
=8- (1#25- (8'
8- - (8' a
=(8 '8' 457((6' ('>7 6(g 1(#7 '
=81- 85-'
; ' 37-2 '
; 02 -' '8 19'

; (3(1'
C'-2 '6 19'
C23' '8' 457(n6 (
>7 6(1(#7 '
C26 # 619'
C2-2 9#1 57(1 1'
C (#((19'
C829(8 51'
C(8'<
C(8 19'
C(- 2'
C 1- 5 19'
@'- '6 19
@25211 -
@2(#6'-(8 19'
@2(> -7 '3(2'8 19'
@(9 8'6 19'
@(928(#
?0 25-' 8< 4 0 25-'
?0 25- 19'
?25'16(8'661 9'
?8-(6(3 '
?#8 (8'
? 2 1#-6
>'6 832821 1'
>'828-726 19'
>'8#1 57 19'
I' '66#6 19' >4 57#
#7 1 5'6
>' 1 9(8 ' ; ' J' ('
>2 52#- (8'
>2 #'-2- 51'
>2 1(8'6 -
>211 9 19'
>2- =?' > #5 # 6
>728(928(8'
>7 1 (38(9 '
>6'-(8 5' ; (2'
>62'1 2'
>6 '6 19'
>(1 - 19'
> '39'- 19'
> 2< ('0621'
> 2< 5'- (8
> 2 2W 1-2852' M(5- 82' (
> 2128-'- (8 19
> (0'0 6 19
>1 57(#7 1 51
> 8 17 928-
O 8-2112852
A'- (8'6 19
A2'6 19
A2'1(8
A2528-
A26'-6 - ' (' : 8(Jg 62<32

A29 8 152852'
A#- (5(38 - (8'
A 3(19
A? '64(5 2- 'T72
452#- 5 19
4(7(6'1- (19
425 '6' 19
4266
4281'- (8'6 19
49266
4((2- 21' ; 2' 82<'
4(6 #1 19

4(#7 1-1'
4#'52' '8< T 92'
4#72 21' C 1 5 (' -72'
4-(51
4 0 25- 19
4 06 92
4 99 9'E(889
4 66(3 19
4 85 2- 19
4 8<2 21 1
4 8257 19
4 8-721 1

T'(19'
T'1-2'
T262(6(3 '
T(57'
T '81528<28-'6 19
T 6299'
T 6 9
K-K -' '8 19
1 (8
R 202 H1' ; ' J'
R K

? #4&4=?'' $ ' &'C?4#4 ' ! I 0 '

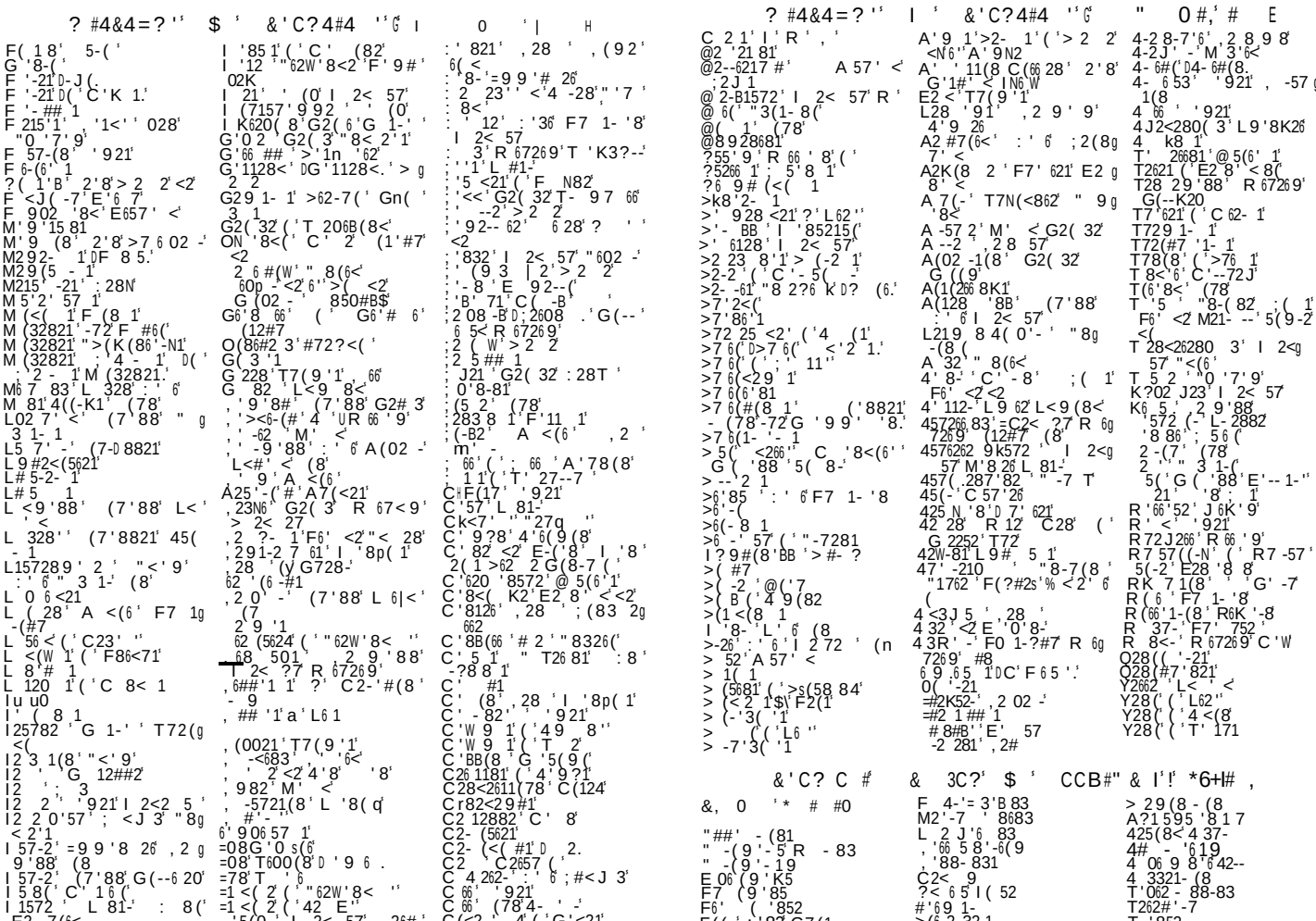
"0'8B6-' I 96 '
"026' <'>2-2 '
"0 '7'9'=08' M'8<'
"27 68' "6211'8< ('
"<'91(8' A(02 -'
"<26' <D(' "4-726' <.'
"2<21 1'
"2K21<2981'
"2157 821'
"3 5(6' ' A(<(6#7 1'
" -##'
"602 - 1' C'38 1'
"6F 8(K1'
"6290 2 - ' 2'8'62' A(8<'
<#
"62W'8<2 ' (' " >0-(<'
1'1
"6?W'8<2' (' '621'
"63? (-- ' | '85215('
5(8-
" 9 9(8 81' , 2 9 , '2'
" 9 9(86 1' 4'25'1'
"8'57' 1 1'
"8'-(6 ' '5(0'
"8'W 3('1'
"8'W' 57 1'
"8'#=' 1'
"8'W 9 '8<2'
"8'#9 2821'#' C 62- 1'
"8< (8 5 1'#' A7(<(2
"8K2-' >2-2 '
"88652 1'
"8- #5781' (' "15'6(8

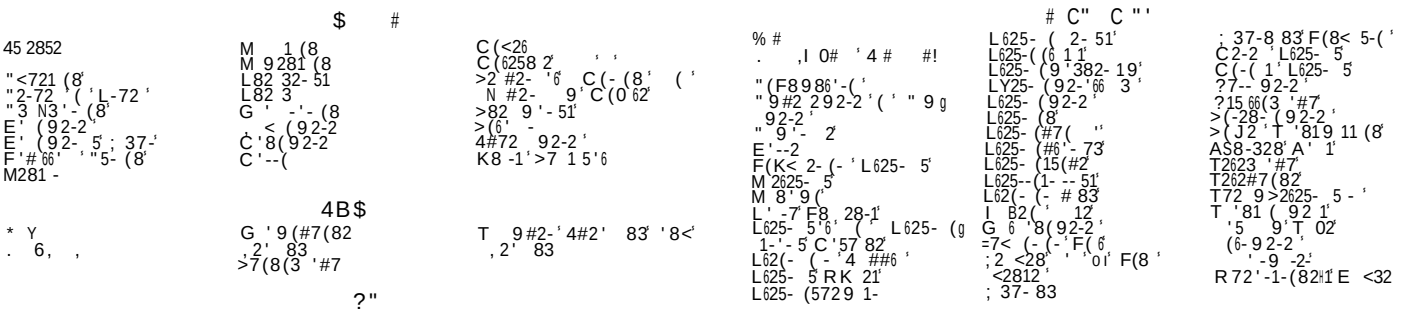
!#(E(86J ' (' T '8 ''
"#(4-(= 1' C 57'26'
" 52166' 1'
" 5726' 1' (' C 62- 1'
" 57 -'1'
" 1-## 1'
" 1-2' ?' " 1-?8' ('
F7 (1'
" 1-(-62'
" 1-(W28 1' (' ?T' 28'
- 9'
"1#'1 81'
"1-'G2(3' "8-(8' wI 2<g 57'
"-728(<(1'
" 29#'(2

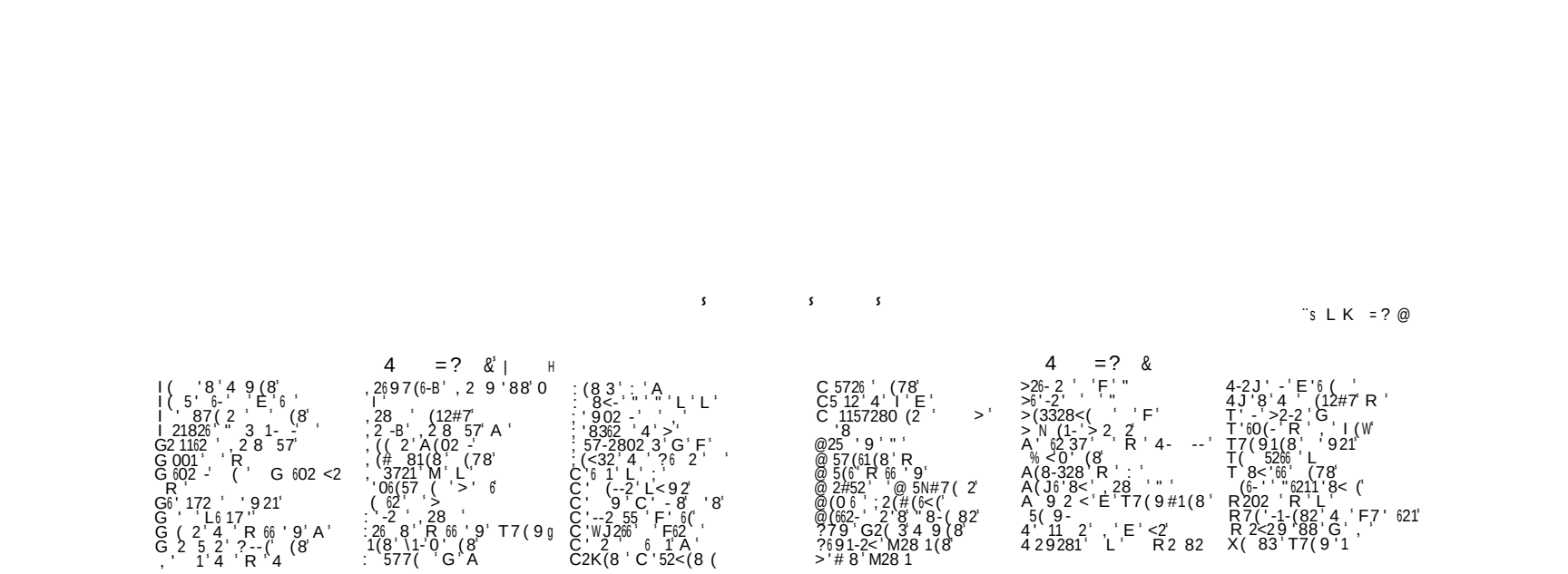
" 28' 1' A 57' <'
, 2 8 57' ; <J 3'
" 2 (21'
" 5288'
"B' 1' > 2 2' , '5 68-72'
E''<2 ' I '88' Q' 2'
(8
E'5(8' I '85 1' E' (8'
2 96'9' 15(9-' 4-'
"6O' 81'
E'5(8' A(32'
E'2(8-7(#2' DE'5(8'
E'5('E'5((86 1.' (7#'
E' 62' 4' 9' 26'
E' 8' "62W'8<2'
E'6<J 8' '921' C' '
E'6(' A(02 -'
E'66' 8572' > 2 2' 4 9 (8'
E' <6' F7 1-(#7 G(--g 2<
E'--2KW' F0' 6?4'
E'893# -28' "62W'8<2'
(--6620'
E' -' 8' ; (1' L 3|82'
C' 2'
E'W-2 ' "8< 2J'
E' 62' > 2 2'
E25 ' (# 4 3 1,9 8<'
E2 2 ' E'6-7'1'
E282 2' I 2< 57' L< g
' <'
E2#-7' 9 ' 2 2 9 '
EN ' <' (12#7' I N<

E2 262 ' G2(32'
E2 8' <'('D 7' - 21'
E '1'
E 26' G'0 26'
E6 683N ' G2(3' E2 8g 7' <'
E (8' ('E(1-72821'
E(2- 1' D(' E(2-7 1.'
"8 5 1' C'86 1' 42 2 g 8 1'
E(6B'8('E2 87' <'
E(8'6< ;(1' G'0 26'
" 90 (12' 5(86-2' <2'
E(882-' F7' 621'
E(1- S 9' F7 1-(62'
'5(0

E(-2 J2 ' I 2< 57'
E '8< 1' D 7 1-'8 " g 3 1-
E (J8' T7(92 1'
E 5 2 ' (7'88' ' (0'
E 8('G (<'8('
E~5782 ' I 2< 57' L' 6' F7 1-'8' ; <J 3'
E 2 'F6' <2'
E 762' (7'88' G(--6 20'
E (8' 2<2' "## '8('
E 932 1< ' (' E8 32 1' <5 1' I '85 1'
E 9 <'8' 2'8'
E -62 ' R 66 '9' " 5-('
F' <' L<J' <'
F' <' (78'
F'6<2 J((<' 28 '
F' 9#'8266' ' T(9 9 '1('
F' 9 57'26' G2 17#9'
F' 82' <21'
F' (' L0 2' C' 2'
F' | 2' C(-B'
F'12' (78'
G2021'D-J(.
F7'6 0' 4' , 2 8 57' C(-B'
F7' 9#2' W' R 66 '9'('
F7' (8' > 2 2'
F7 6(#
F7 1'8-76 1'
F-(16## 1'
F7 00' T7(9' 1'
G6' #' 4' 9 26'
F6' 0(3' (7'88'
F62'8-721'
? 2(0 6 1'
F66-(#'(7K1'
F(66 2 '" -7 '
G?K 84' "#-7(8 '
F(9-2' " 3 1-2'
F(8< 66'5' L-62#82' E(8g 8(-' <2
F(#<(22-' C'C2 2'#
"8-(82' @ 5(6'1' F' T
-'-'9' 3K 1'<2'
F(8 5 1'
F(83 2 2' A 57' <'
F(9 - 1' ; 5 1' "8
(8







: #%3*3 ' & ' # % *1

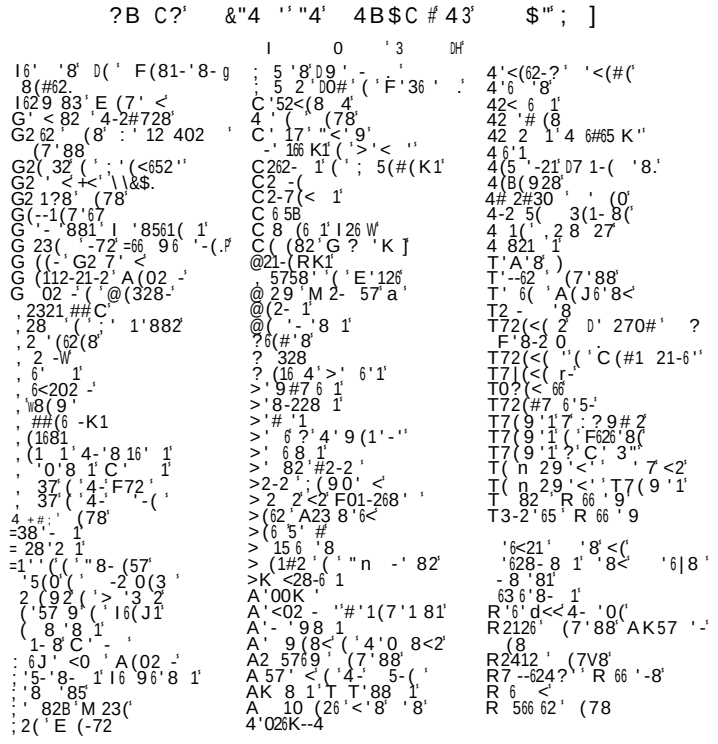
, =4T?AX' ?I' F , A=4T="@=TX

?B C?' &"4 ''"4'"? ' 4B$C #43' $"!' -A

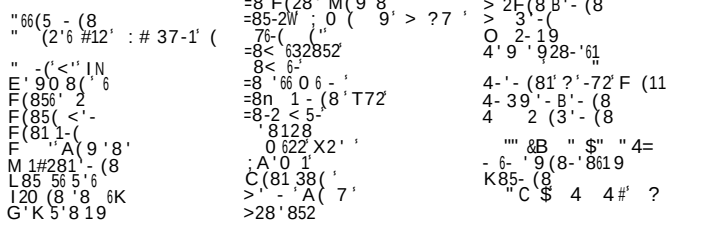
b \

4:#%3*3 ' & ;< # % * =

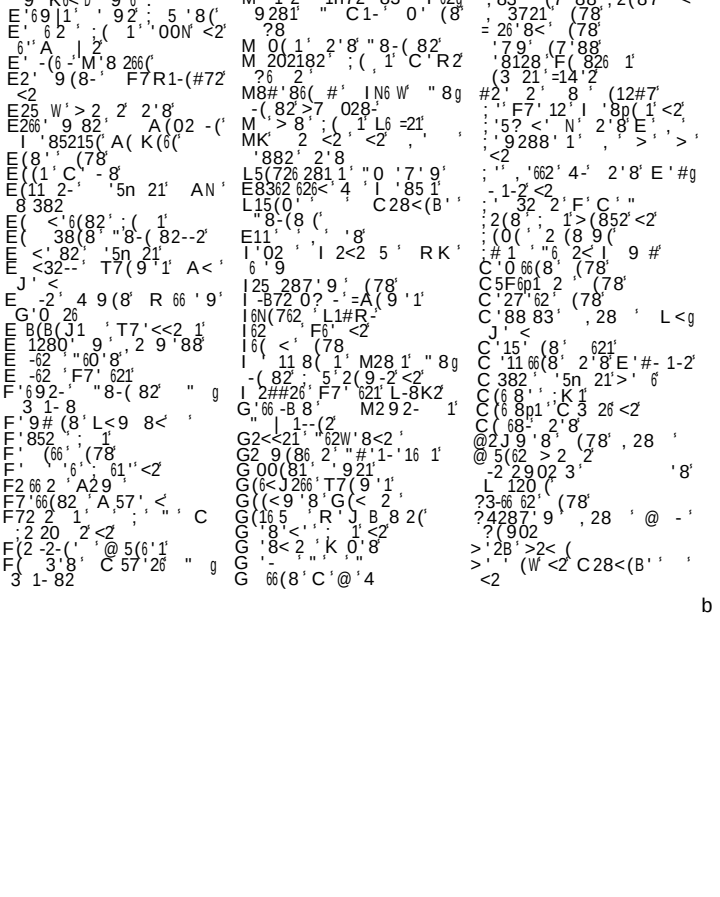
?B C?' &"4 '' "4' 4B$C # 43' $";]



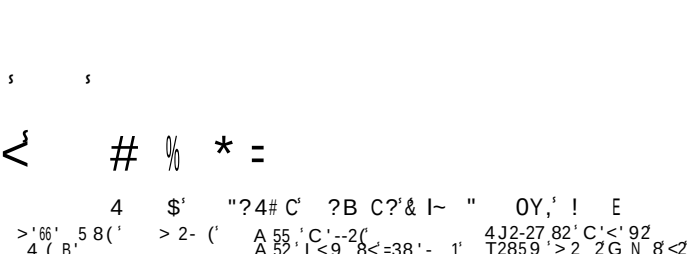
4 $' "?4# C' ?B C?'!' -A



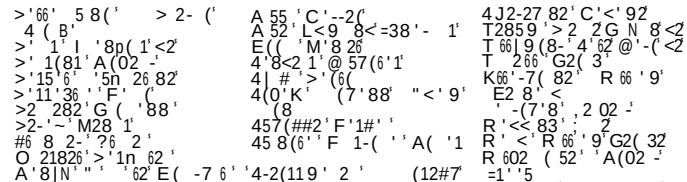
4 $' "?4# C' ?B=C?'!' " 0#,



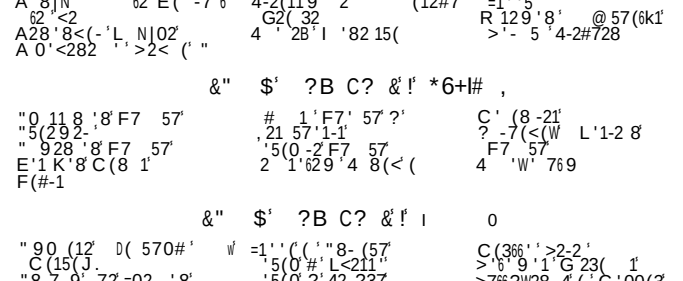
4 $' "?4# C' ?B C?'& I~ " 0Y,' ! E



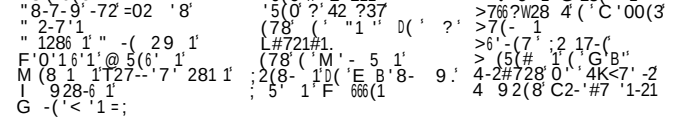
&" $' ?B C? &'!' *6+I# ,



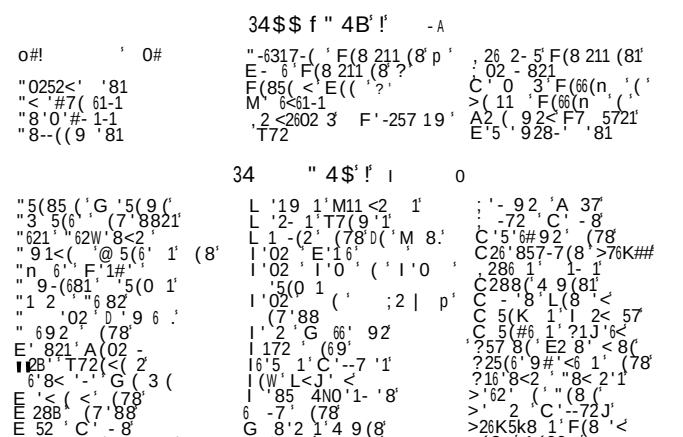
&" $' ?B C? &'!' I 0



34$$ f " 4B'!' -A



34 " 4$'!' I 0



?B C?'43' $ # $ 6' -A

D=856 < 83'-72' L# 15(#'6 F7 57' ('45(-6'8<.

?B C?'43' 4 # $ I 0

b &

: #%3 3 ' & ' # % *

?B C?'43' $ # $ 'G' I O '| H

M' <1(8'E'8<'66'T7(g 9'1
M' 21'E 57' <'
M28 1(8' G2(32' "8g -7(8
M2 7'9' R 66 ' 9'
M(<<' R 66 ' 9'
M(6O28' (78'
M(66 83 ' A' R ' A '
M(36'1' (78'
L'57' <' (78'
L' 62' (78'
L<J' <1' 28 'T7(9'1'
E '81(8' L<J ' <'
LJ 83 "62W'8<2 '
I ' ' I 2<2W 5'R 66 ' 9'
I2'-62 M'8 26'
I266' (78'
I2 ' '@ 57(6'1'
I <<21'A 57' <'
I 26<' I 2<2 5 '
I622-J((<' R 66 ' 9'
I62-572 ' (78' R 66 ' 9'
I(021' "62W'8<2 ' >28g (12
I(J62 ' L<J ' <'
I '12 ' ' 921'
I 2J28' "552#-2<'
I 6 2' R 66 ' 9'
G'-' 2 T7(9'1'
G 01(8' L<9 8<'
G 6# 8' E2 8' <'
G62 3' G2(32'
G(0'-'4'9 26'
G(<J 8'I '85 1'
G(2'F7' 621'
G(60 9'L<J' <C2 ' 65
G '02' (78'L 821-'
G ' 'A(02 -'
G 8<'6'L<9 8<'
G 88 83' >2-2 '
'(2-' (78'
'621' (78'
'8 8(#<' 26 '
' 9#<28'A288'M 5 1(8'
'88 83-(8' ' 921'
' 182--'4'9 26'
'-57'L<J 8
'J2 1' ' 37'A23 8'6<'
2862 ' (78'
2 2 ' 921'
5 2 3K6'L<9 8<'
65 21'G2(32'
K'A(J '8<'
('<6 'E| '968'
E(< ' 9#7 | '
(('R|6-2 'I ' '87'T'
(92'G2(32'
(92'T7(9'1' ' -J266'
(162 '4'9 26'
<-' I28-(8' (78' "8g -7(8
(J' R 66 '9'R '617'9'
(?T(8' (78'4 12' (78'
9#7 2 ' 'J 2852'
= 26'8<' (78

'5 1(8'F 6'
'5 1(8'T7(9'1'
200' (78'
2J26' (78'
(821'R 66 '9'
(-8' (78'
W(8'R 66 '9'
2062' (78
2 -7'G2(32'
28'T7(9k1'
2882-- R7 -2'
28# 5(--'A28 '968'
83' L<J ' <'
83'R 66 '9'
'J 'R 66 '9'
2'-721'4-'862 '
22' '921'> 852'
2 37-(8'A(02 -'
216 2'F7' 621'
6<<(8' 29 '> '
37-6((-' (78'
37-'((-' (12#7' E' g
02
6(<'RK6 '9'
(8362 'F7' 621'T7(9'1'
(J-7'A(02 -'
-2' 28 ' I '85 1'
C(@2 62' 37'
C'5F(K'C'65(69'
C'322' R 66 '9'
C'322' R 66 '9'F(88(
C'882 14K--(8F7' 621'
C'8-'A 57' <'
C' 7'9' R 66 '9'
C' 17' 2 02 -'
=' 17'@' 5 11 ,1'
C'-- 8' 28'
C'--72J''T<0 '1'
C' 52' ' I' M28 1(8'
C' 'R 66 '9'
C2 1'>2-2 '
C <<62-(8'F(8 2 1'
C 66' (78'
C 682 ' (12#7'
C(02 6 'G2(32'
C(-(8'T7(9'1'
C(162 ' '921'E(JK83'
C(162 'T7(9'1'
@2'62' (78'C'1(8'
@2662'A 57' <'
@261(8'A(02 -'
@2J-(8' (78'
@(J266 "62W'8<2 '
& # 'R6K '9'
>' ? '4'9 26'
>'- 5 '4 9(8'
>'--21(8' '(7 F(62 <32'
>2' 1(8' (78'
>292 "8< 2J'
>76K#(--1' , 28 '
>6 9#- 2' L<J' <'
' 21
>(((5 2'L<J' <

>(-2 1'E2 60 '
>(--2 ' (78'
> 21-(8' (78'
> <2 W' 9#7 2 '
> 12 'L<J' <E(2 ('
A' 8(6<1' (78'
A'J6 81(8'A 57' <'
A 57 9(8<' ;237'
A << 83'G2(32'
A(02 -1(8' I 2<2 5 ' R 66 '9'
A(32 1' (78'
A(12' 37' '921'
A 62' (78'F7' 621'
4'85 (-' R 66 '9'
4'8<2 1(8'A(02 -'
422 2 'T7(9'1'
426J 8'G2(32" 3 1- 1'
42J266' R 66 '9'
47' #' (78'
472 8<(8'G 602 -'
472 6(5 'T7(9'1'
472 6(5 ' R 66 '9'
47 #62 ' (8'-7'8'
4 92(8'F7' 621'
4(-7'A(02 -'
4#2812 ' (78'
4-'862 '" -7 '>28 7 8'
4-'862 'L<J' <'
4-2 82'A 57' <'
4- 66 83 622-'L< ' <'
4 982 'F7' 621' A 57 ' <
4 92 ' (78'E <'
T ' " 57 0'6< F'9#
-' 6(' 2 29 '
T29#62' I 2<2 5 '
T28 1(8'T7(9'1'
T7(91(8'R 66 '9'
T K(-1(8' (78'
T(#6'<' '" 3 |-81'C('' -19 2
T 26'J8 '4 ' (8'-7'8'
T 2857'A 57' < F7282'
-W
K172 ' '921'
'837'8'F7' 621' (78'
288' 28 '
R'52' 28 '
R' 2' R 66 '9'
R'6-(8'E '8'
R' 0 -(8'R 66 '9'
R' <' 42-7'
R'-1(8'A 57' <'
R21-5(--'E ((2'I(11'
R7'-26 'A 57' <'
R7 -2'T7(9'1'
R -3 -' (78'
R 602 (52'4'9 26'
R 6 81' (78'
R 66 '91'A(J6'8<'
R 61(8'T7(9'1'
R(6 ' (12#7'
R(<1J(-7'F7' 621'
R(<1J(-7' F7 1g -(#72

4 $' 4$" $ $" # ?B C? &'0 34 1'!' -A

M(-'4 7$ '('
M? 6 (0('1'
6L '832665''F7 #7'F(8g 2 2852'
I '866 1 1'
G2 9'8'F'-7(6 5

O 1-' 1' "<(6#7 1' K8 (#
. -72 '81'
C 288(8 -21'
C(' '8'E -7 28'
C 5 2 1'
?6<'F'-7(6 5k

> 2-
> (-21-'8-
> (-21-'8-28 2 2 8
E29(81- '8-1
4 (#-1
4#'8 17' , 2 (92<'
F7 57

4 $' 4$" $ $" # ?B C? &'0 34 1'!

I 0

"00'<62' (0'
"<' 9' C2657 (' '
"6KQ'> 2 2'
"6- 83' (7'88' ,2 8 57'
" 9 9(8' F7 1-(#7'
I 2< 57' (8'
" 9 ' -' (121'
" #<-' (7'88'
" 8(6<'G(-- 2<'
" 0 38N' ' C2 62' <'
E'7 <-' : ' 6' I 6N< 657'
E'18'32' '5n 21'
E' 93' -28' C 57'26'
E' 93' -2 F 16 1' ; '
I '$'
E' ' I2 < 8'8<' F7 1g -'8
E2' 1(0 2' 1' '5'<2'
E2832 6' (7'88' "6g 0 257-
E2 1576'3'R 66 0'6<'
E(2092' ' (0'
E 2 15782 <2' : ' 6' G(--K(0
4 <<281' (7'88'I '8B'
F'6W- 1'G2(3'
F'6?T 1''"0 '7'9'
F7'8 -8' L-2882'
F6' <2' 2'8'
F(552 1' (7'8821'
F(n 2 26' "'
F(n 2 26' "' ;' F
F(-' "8-(82'
F 16 1' F7 1-'8' " g 3 1-

E'66N' 2'8'
M' 0' ;' 6'
M (<'-' G('88'
M ##26' (7'88 : (8 '<'
M(6K832 = (-6'
M(92 '=1''5" 3 1-'
M 26-85(-' F7' 621'
L0 ' <' ' '"
L32<2 ' '81'
L83267'<-' 'G' '
L# 15?# 81'4 9(8'
L 821-=' (7'88'" 3 1-'
I662<82 ' T72(<(' '
I '8(2' " 3 1-' , 2 g 9'88
I 2< v7' (789'
I (9 826'G'1-(8'
G'062-' (7'88'>7 6 ##'
G'66' 1'@ 5(6'1'<21'
G' 1128'I '4'A' -'
G' 'BB' "6211'8<' ('
G2 7' <' (7'88'
G 57-2 ' (7'88'G2(3'
G6212 62 ' (7'88' : ' 6'
' <J 3
G6'11 '' 4'6(9('
G(<2-' I N<N 5' ; (1'
G(9 ' 1' I '88'
G(1182 ' (7'8821'L'
G 8'(1 (7'88' ' (0'
G 2 5 2', 2 8 57'L'>'
G6-B6' ' -' 6' I '" '
,'32 0'50' : ' 6' A g
<(6'
,'78' " 3 1-

,' 6211'a'F'" ' (8'
' ' 91'F6' 1'
' '9'5 '"<(6'
'12' : ' 6' "3 1-'(8'
'832' ,'81'@ 26128'
' 1 -7' "<(6#7'
,26<2332 ' (7'88'
,2 8 57
,2831-2802 3' L 81-'
A 67269
,28 2' ,2 8 57'>' :
| B(3' (7'88' ' (0'
K328 26<'" 'EC '
, (88'88' 'F' : ' (8'
,(1-2<2' <2' G 22-'
>2- 1
,(61-28' : '?' '
,(6-B9' 8' ,2 8 57'
6 1
, 02 ' (7'88' @2#g (9
--2 ' ;2(87' <'
'06(81 ' M'8 26' L 81-'
8 1' I '88' D&.
2 ' > 2 2'
: '78 1' : '>' "
: 2 9 ' : ' 6' T72(<(' '
: 2 5 7(28' ' >' '8'
<28
' 9 9'(02 ' I 2< 57'
"
: 2828' "0 '7'9'
; ''E'< 2' 2'8'<2'
;'832' (7'88'>2-2

b %

4 ' 4$" $ $" # ?B C? ' 0 34 1'!

I 0 ' | 2

;'8328' (12#7'
;''>6'52' (18N <2'
;' 28- 1'>' 6'
;257662 'G(--7' < 5-(' 2'F62 (' 2'8'
;28'8-' '55' 21'
; 90(57' >7 6 ## '8'
;#1 1' A 57' <' "<26'
02 -
;S72' (7'88' : ' R '
;~5 (' G(-- 2< F' I '
; -7' <- F7 1-(#7'
' L 81-
C' 72 82 2'>7 6 #' : (8g '<'
C' -28128' ,'81' ;'1128'
C2 W' "<'602 -'
C2 2 ' 2 8 57' "' R '
CS762 ' ' (7'88' "<' 9'
C(8(<' "<(6#72'
C(172 9' (7'88' ' ; (288' (8'
C~662 ' 6 1'
@2'8<2 ' ,"' R
@2 ' I26 W'
@ 57(6'1' ,28 '
@ -B157 : ' 6' =9 9'8 26'
?02 6 8' 2'8' I N<N 5'
?2762 ' G 1-' ' I 2<g 57

?2-- C ' I 2< 57' F7 1-(#7 ?617' 128' ,2 9'88'
?(1-2 B22' '8' '5(0' '8
? 266 ' ,'81' : (8 '<' (8
?1-2 '6<' 2'8' I N<' N 5'
>0- 6 1' ,' L'G'
> 62 <2 2 ' ,' ?--('
>6'85 'G(--6 20' ' (0'
>-211281N' L<9 (8<' M27' 6- <2'
A'0' -'>' 6'
L2 8 281' (12#7' , g 02 -
: 2 157' I '88' ,2 8 57'
A2 11' L<(' <'G' L '
AN 662' "602 -'
A 27 9' L<8' < ; ' " '
A -1576' "60 257-'
A(-72' A 57' <'
4'0'- 2 ' :(1' " 3 1-2'
45728 26' M'8 26'
457(6628' '8' 28< '
457 6-B' 2 9'88'
457~ 2 ' L 9 6'
457J' B' F7 1-'8' I 2< 57'
457J' B' : ' 6

457J2362 ' "602 -'
4#'832802 3' " 3 1-' G(-O 20
4#282 ' >7 6 ## ' (0'
4#--' ' I 2<' 57'
4-'<2' E2 87' <'
4-2 ' A <(6' L J '6<'
4J2<280(3' L 9 '8 26'
T2 62-' R 6726 9' "0 'g 7'9
T2 1-22328' G2 7' <'
T7(6 5 ' I 2< 57' "' 'G'
T 262' F(826 1'>2- 1'
T '2-68'(' T 2- #'"
KK 9'88' q ['
'- ' ' : R 6726 9'
(2- 1'G 102 - 1'
(11#1'G2 7' < (7'88'
R'657' (7'88'G2(3'
R231572 <2 ' ' '
R2 11' E2 87' <' '
R2 112' F7 1-'8' , 2 g 9'88
R2 B1u5 2 ' : ' 6'
R 28<- ' '81' , 8 57'
R2-1-2 8' (7'88' ' (0'
R 82 ' G2(3' E282<' -'
R -1 1' ' 2 9'88'
R -- 2' : ' 6' I 2< 57' "
Y 8B28<(' @ 5(6' 1' ; <J 3

?B C? &'6' -A

DE -17'L 9# 2'8<' D 8-2<' 4-'-21' 856 < 83'-72'L1-'06 172<'
F7 57'#'42(-6'8<.

"3'#29(8 -21'
E'#- 1-1'
E 062'F7 1-'81'
E(1'E 3'<2'
F'6 8 1- 5 C 2-7(< 1-1'
F'92 (8 '81'
F'-7(65 "#(1- 6 (F7 57'T72'
F 1-'8' F'-7(6 5 F7 57'
F7 1-'8 F(8825-(8'
F7 1-'8' L8<2' (4(52-21
F7 1-'8 45 2852'
F(99(8' ? <2' E(((
F(83 '-(8'619'
M 15#621' (F7 1-'
M 1128-2
L '8326 5'6 "66 '852'
L '8326 5'6 "11(5 '-(8'
L '8326 5'6 K8 (8'
I 22' E'#- 1-1' (' I 22g J 66' E'#- 1-1'
I 22' F.7 57' I2<2 '-(8'
I 22' F7 57' ('L836'8<'
I 22' F7 57' ('45(-6'8<'
I 28<1' 4(52- (
G2 9'8' E'#- 1-' E 2-7

O ' 2 1
A'8-2-1
A2 (92< F7 57' 8'
A2 (92< F7 57 8
K 4 " ' DG2 9'8.'
A2 (92< L# 15(#'6'
F47 (7
A23 9'M(8 9'
A 2'E 2-7 28'
4'6 '-(8'" 9 '
45(-6'8<' F7 57'('
47 2 1'
K8 -' '8 19'
K8 -2<' E 2-7 28' 8'
F 1-
K8 -2<' I 22' F7 57' ('
45(-6'8<
K8 -2<' C2-7(< 1-
F7 57
K8 -2<' C2-7(< 1-' I 22'
F7 5721
K8 -2<' > 210 -2 '8
F7 57'
K8 2 1'6 1-' F7 57'
R2162 '8' C2-7(< 1-'
F7 57
X(83' C28#1' F7 1-'8'
"11(5 '- (81

' ?B C? &'!' I 0

"02 92-7 ' (78'
" 81J(-7' 28 '
"60 37-' '5(0'
"62W'8<2 ' "57 0'6<'
"62W'8<2 ' R 66 '9'
' 8<1'
"662 82' (12#7'
"K2 82'A 57' <'
"K(8' ' 28 '
"61(#' 8528-'
" 90 (12'-1''5'
" 921'R 6K'9'
"108 ' I '85 1'
E'5(8' ;2(8' <'
E' 66 2'A(02 -'
E'66(' A(12''
E' 56' ' (78'
E' 56' ' A(02 -'
E' 821' "602 -'
E' (J2' ,28 '
E'-21' JK66'9'
E'W-2 'A 57' <'
E22572 ' ,28 'R' <'
E22572 ' ,' 9'8'
E266' 9 ' (12#7
E266(J1' ' R 7 -82 ' 2617' --'T7(9'1'
E281(8'G2(32'
E2 ' F7' 621' "602 -'
E <<62' (78'
E 882 ' T7(9'1'
46' 2R 66 '9'G' <28'
E6' ' 37
E(' <9'8'G2(32'M'8''
E(382'E' <'
E#8' ' (' 1'
E((-7'R 66 '9'
E(1-(8'T7(9'1'
E(<'Y'57' '
E '52'F7' 621' (83'
E ' 82 <'M' <'
E ((1'>7 66 #1'
E (-72 1'A 57' <' '
E (J8' (78'D<'\c`c

E (J8' (78'D<'\`` `.'
E (J82'A(02 -'
E (J81(8' ? 21-21' " g 3 1- 1'
E 52' "62W'8<2 ' E'6g 9'8
E 57'8'L61#2-7'
E 8- 83' '028'
En8 '8' (78'
E T<2 'G2(32'
E 3211'M'8 26'
E 6 (371'G2(32'
E 1782K' ('(2'
E 51' C'-72 '
F' 81' (78'
F46d9 'L<9 8<'D\a$$
F' '8 'L<9 8<'D\ac\ ' \c%&.
F'6<2 J((<'M' <'
F'92 (8' (78'
F'92 (8'A 57' <'
F'9#026' "62W'8<2 '
F'9#026' G2(32'
F'n6#72K' (78'C5;2(<'
F'-8#026' A23 8'6<' (78'
F'8<617 A(02 -'49 -7'
5'8-'"8< 2J'
F'- 6'M(8'6<'
F'- 62' "6-k'8<2 '
F' #28-2 ' :'8-'
F' 4-' 21' R 67 '9'
F' -J 37-' >2-2 '
F' -J 37-'T7(9'1'
F' 6' (12 "'
F7'692 1' '921'
F7'6682 1'T7(9'1'
F7'8<62 '4'9 26'
F7'88 83' R 66 '9'
L662
F7' 621'T7(9'1'
F7'--82 'F7' 621'
F6' 'I '85 1'L<J' <'
F6' 2' "<' 9

F6' 2' '921'I 229'8'
F6 (<' (78'
F(2'T7(9'1'
F(66 2 'A(02 -'
F(--(8' (78'
F(W'4'9 26'
?(W'4'9 26' '81(8'
F (10 ' (J' <'
F 88 837'9'R 66 '9'
M'62'A(02 -'R 66 '9'
M' 21'M' <F7' 621'
M' 1' "8< 2J' '5 ' 1(8
M'J1(8'G2(32'
M22 91'F7' 621'I(52'
M2W-2 ' 28 ' C' - 8'
M('82'G2(32'R1 1768 3' -(8
M(<< <32' >7 6 #'
M(J'E? 28B('
M(J62' (78' 2W'8<?'
M 2J'4'9 26'
M 9 9(8<' ,28 ' +<' \`a$.
M 9 9(8<' ,28 ' D<' \`bc.
M '"6'W'8<2 '
MJ 37-'T69(-6J'
L<J' <1' E26'' E'-21'
L<J' <1' (8'-7'8'
L<J' <1' ;2J 1'
L<J' <1' T7(9'1' F7' 61'
L6 1' '(78'
L6 (-' (78'
L66 1' R 66 '9'
L96 8'T7(9'1'
L9 9(81'@'-7'8'26'
L 1 92' L0282B2'
L 1 82' (78'
L 1 82' A'6#7'
L 1 82' T7(9'1' (' ;86'-728
L-72 <32' (78'R2162

:# *3 ' & ' 4 # % *

I 2 ' F 7 5 7 2 1 ' o ' "] #, ' E

L '81' F7 1-9 '1'
L '81' L '8' 2 72 '
L 2 2-- ' F7' 621' F ' (66'
I ' 0' 9 ' "8< 2J' C ' g
-8
I2882 ' M <62 '
I 26<' ' 28 ' C ' - #'
I 1 ' R 60 '
I6' 26' (78'
I6 8-' A(02 -'
I6 8-' T 9 (-7 '
I(1 -7' >2-2 ' T ' 6('
I(1-2 ' (78'
I(W' G2(32'
I ?-7 837' 9 ' ? ?-' 1'
E ((1
I 662 ' "8< 2- '
G'62' 72(#7 6 1'
G22' T7(9 '1
0' "<' 9'
66' (78'
G 6621# 2' G2(32'
G 6621# 2' T7(9 '1'
G6'<<28' R '17 83-(8'
G\ 4' (78
G((<J 8' (78'
G((<J 8' T7(9 '1'
G(-(8 '4 ' 9 26
228' R 66 ' -8' 28 '
228 J((<' (78'
G -7 2' T7(9 '1'
K '6<' #2' ' 9 21' "62Wg
'8<2
, '6<' 82' A(02 -'
, -'66' F7 N-(#72' @2J '
7 '8
, '66' A(02 -'
, '6 0 -(8' T7(9 '1'
, ' 1' T7(9 '1' ' 2'
, 'J 1' I7 >(1' ; 1-2 '
, 28<2 1(9' " (W' 8<2 '
, 28 C '--72J' '
, 56?]' L7 '1' '
6-(7?((' A(1R266
J 37-
, (0' -' (78' 28 '
, (<32' F7' 621'
, ((2 ' T7(9 '1'
, (# 81' C '
, (# 7 1' 4'-' 26'
, (-(8' A(02 -' I (9 '8'
, (J2' (78'
, ' 3721' ' 37' > 52'
, 8- 83<(8' 426 8 ''
'1- 831' v(#-2' 1' ('
, 88- 83-(8' I 2<2 5'
M' 8
, 8 1-' (78' I62-572 '
, -57 81(8 ' "882'
= 83' L<J ' <
' 921' (78' "8326'
' R 66 ' 9'
<<' 4 6 21-2

T <1(#' "<(8 '86'
: 67' 9 ' "62W' 8<2 '
: ' <82 ' @ ' -7 J #6'
; 22' "88'
; 23'-2' E ' -7(6(92J'
; 2 27' L<J ' <'
; 26' <' (78'
; K0 82' (78'
; 8<12 ' T02?#7 6 4'
C(F72 82' A(02 -'
C
C5F6 8-?5 ' (78'
C5G -2 -' " -7 ' F--17'
9' 8
C' ((88'6' "62W' 8<2 '
C' 262(<' @# -8' 8'
C' -6' 8< ' L<J ' #<'
C' 8-(- ' T8(9 ' ''
C' 17' 6 '4-2#728'
C' 179' ' (17 "'
C' 1(8' F ' #2-1'
C' -7 J ' =85 2' 12'
C' -72 ' A 57' <'
C' -#21(8' G2(32'
C' 72J' (8' -7' 8'
C2' <2' R 66 ' 9'
C2<7 1-' R ' 6-2 ' , 28 '
C2 K62' " 8< 2J'
8 '66' L<J ' .<'
9 62 ' R 66 ' 9'
C 66 3' 8' R 66 ' 9'
C('-' A(02 -'
C((< ' EJ 37-' ; 9 ' 8'
C(1(8' A(02 -'
C 3362-(8' ' (<? J 2 2'
C 762802 3 ', 28 ' C 26'
57 (
C 762802 3' ' > ' G ' 0g
26'
C 762802 3' R 6E' 9 ' " g
3 1- 1
CS662 ' G2(32'
' 62 ' 921'
@(8' (08' R 66 ' 91(8'
@2J5(928' C '--72J'
@(--' ' #7' 62-'
? -(8' ' (0'
? J28' (78'
?W280 6<32' , (78'
>' 692 ' A'
>' ' L<J ' <1' " 9 ' 1' '
>' 2 ' (12#7'
>' 2 ' T72(<(2'
>' 9 8' (78' E-(R8'
>'--(8' I ' 85 1' ; ' 8<2 '
>' 1(8' L<J ' <'
>2' 0(< ' " 8< 2J' > 21g
-(8
>2<28' "62W' 8<2 '
>28 ' (78'
>726#1' " 1- 8'
>7 6 #' (78'
>((62' C '--72J

>(--2 ' "6(#B('
>(--2 ' , 28 ' F(<9 '8'
> '--' ? ' 1(8'
> K17(8' R 66 ' 9' C(
-'4 ' A(02 -'
A22<' "8< 2J'
A221' T7(9 '1'
A 33' ' 921' , ' 1(8'
A(02 -1(8' R 66 ' 9'
E #5|
A(0 81(8' (78'
A(32 1' 2#'
A(6(5 ' A(02 -'
A(81' I '85 1'
4' '32' C 8(-' 8<1(8'
457' ' >7 6 #'
42'0 ' '4' 9 26'
47' #' ' 921'
472<<' R 66 ' 9' G 228 '
(>9' T7' 2
4726<(8' G' C ?8 (?'
4 9#1(8' C '--72J'
19 -7' G2(32' "<' 9'
19 -7' , 28 ' E(8-? 8'
49 -7' , 28 ' > 212 2<'
19 -7' (12#7' ' '
19 -7' D(' 49 -7.' (78'
4?8-75(--' (' 88''
4#8-3?(8' F7' 621' , ' <g
<28
4-2262' "882'
4- 621' LB ''
4-(1' A 57' <' 4' 6-2 '
4-(A(02 -' , 2 02 -'
4-(37-(8' (78'
4J 83' M' <'
T' 69' 32' T7(9 '1' <('
R --
T' 6(' @' -7' 8 26' R 6g
6 ' 9
T(2 ' A ' " 572 '
T 2326621' 4< 9#26' > < '
2' W'
T (8' T7(9 '1'
T 96(57' 8'
R' 6' 8< ' I ' 85 1'
R 2162 ' D ' 9 6 .
R 2162 ' (78'
1-(8' R 66 ' 9'
R 7 -2' (12#7' E ' 85('
R 0 -2 62 <' G2(32'
R 7 -9 ' 8' C ' 5 1'
R 7 -2' " 62W' 8<2 '
R 33621 J(-K ' C F7 -26'
R K0' 91' (0 '
R 827 2882 ' (78'
R -72 1#(8' (78'
R F(<1' ; 2(8' <'
J ((9 ' 8' (78
R ((61-(8' T7(9 '1'
R 6 2 ' 62W' 8<2 '
X(83' E 37' 9

CC# & 4#4 ' ' ;! E

A - '6
A(572-
A((<
E(13
A80 v
432 ' 9
47 92

4(8-' 8K
4-(62
4 #6 52
4 90(6
T2820 ' 2
T7 062

T ' 4
T 8 262
21#2 1
21-928-1
' - 5 9'
3 6

CC# & &" C # &4$&

"< 28-'
"66 4' 7-1'
"66 4(61 M' '
"88 85 ' - (8'
"15281 (n' I 2 '1-' (' -72'
"17 R 2<821<' ' '
"11 9#- (8' I 2 '1-' ('
F' 8<629 '1'
5' 8 '6
F7 1-9 '1
F(# 1' F7 1-]' I 2 '1-' (

L '1-2 ' ; (J' 4 8<' '
L 902 '>' 1' 'K< L 902 ' C ' K8< ' T7 1<' '
R22 1 @2J' X2' 1' M' '
L#6#7' K ' I2' 4-' (' >' 69' 4 8<' '
I2' 1-1' ' 8< I21- ' 61' >' 11 (8' R22 '
G((<' I <' ' A(3' - (8' M' 1'
, (6 ' R22 ' 47 (2' T 21<' '
, (1' F' 8(8 5' 6 T- 8 - ' 4 8<' '
=88(528-1#' M' 3 6
L2 92112 R7 -1 8<' ' #' >28-2g
; 28- 5(1-

8

B @ C"&

* + #' % " ,0

"' (8
"0' <<(8
"02<823(
"026
"0 '-0'
"0 3' 6
"0 '7
"0 926(57
"082
"0 '7' 9
"01' 6(9
"0 11
"55(9 9 (<' - (8
"526<' 9
"57 '57' K1
"5-1' (' -72' "#(1-621
"<' 9
"<(86 '0
"7' 0
"731 2 1
"0' B
"7' B ' 7
"7 -7(#726
"6#7' ' 8< ? 923'
" 9 '62 -51
" 9 9 (8 -21
" 92 -21
" 9 (1
"8' 8 '1
"8< 2J
"8326
"8- 623(928'

"#F5' 6 #- 2' ; 6-# '- (
"#(5 #7' 6' ; -2 '- 2
"#?6=(1
"#F66 (8
"#(1-62
" 5726' K1' D 83' (' g
<' 2'.
" 9 '32<<(8
"1'
"172
"-7' 6 '7
"B' '7
E' 0 6(8 '8' F' #- - '
E' 6' ' 9
E' 9 'O' 2' DL# 1-62' '8<'
G(1#26' (.
E' -7(6(92J'
E' 57'
E226B20 0
E272 9(-7
E28 ' (9'
E 062' 4(5 2- 21'
F' 8'
F' 620'
5' 6 ' T72' G#6<28
F' 8' ' 8 F' 8' ' 8 -24
5' 8- 5621
F7 '6<22
F72 0 9
F7 1-
F7 ?8 2621' E((1' ('
F(6(11 '81' L# 1-62' -('
-72
F(8?(<' 852'
F(8-7 '81' L# 1-621' -('
-72
FK17
M' 8
M' 8 26'
M20(' 7
M25 '6(3 2
M26 6' 7
M2 32' T72
M2 -2 (8(9
L55621 '1-21
L55621 '1- 5 1
L<28
L<(9
L7 <
L6
L6 '7
L6 17'
L9 9 '8 26
L8(57

B @ C"&

D422' '61(' " : ' I K6' c' & L , #E

L8(57' E((' ('
L#721 '81' L# 1-62' -('
-72
L#7(<
L#7 ' 9
L1'
L1-72
L 2
LW(< 1' E((' ('
LW(< 1' T72' D(' -7?'
=1 '26-21.
LB2 26
LB '
LB ' ' T7 <E((' ('
LB ' ' I(-7 E((('
LB ' ' 8< @2729 37'
E((1' ('
I26 W' "8-(8 1'
G' 0 26'
G' <D# (#72-.
G' 6' - '81' L# 1-62' -('
-72
G' 6 62(
G' 9 ' 6 26
G2821 1
G28- 62
G 0((- -21
G6<2(7
G(3
G(6 '-7
G(9 2
G(1#26
' 0'
' '33'-
' 9
' 20 2J1' L# 1-62' -(' -72
' 2 ?< '81
' 2W' #6'
' 2W' -2 (7
' 2B2 6' 7
' 37' >6' 52
' -- -?1
' -21.
' (1' 8#'
' (12'
' (172'
=1' ' 5
=1' ' 7
=1' ' 7' "15281 (8' ('
=179 '26

' 5(0#1' R266
' 921
' 921' L# 1-62' (
'#72-0
'17' ' E((' (
20(6' 57 8
27(' 9
20(' 9 ' (' (' 9
27(17' #7' -
27(' 7
27
2#0-7'

2 29 ' 7'
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24 1' F7 1-'
2-7 (
2B2026'
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(0
(26
(78' 4-
(78' D-72' E' #- 1-'
(78' T72' L# 1-621' ('
(78' G(1#26' ('4-'
(8' 7'
(8' -7' 8'
(12#7
(12#7' D7 10' 8< ('
C'
(12#7' ('" 9' -7' 2' '
(17' K' E((' ('
(16' 7
80 6?2' T(' ('
=80662221' E((' (

<' 1' =15' (-'
<2' T72 G282 '6
L# 1-62' (
<321' T72' E((1' ('
< -7' T72' E((' ('
6 28 -21
: 831' E((1' (
; ' 92(7
; ' 928-' - (81
; 'B' 1
; 2 ' -7' 8
; 2 -21
; 2 - 5 1
; 02 - K21/4 8' 3(3 2' (
-72
4"
BC 3
; K 2' 4-
; 2' G(1#26' ('4-'
; 1K8 ' 1
C' 55' 0221' E((1' ('
C' 6' (76'
C' 9 9 (8'
C' 8' 1127'
C' 8' 1127' D- 02.'
C' 8' 1121' > ' 2' ('
C' ' 4-'
C' ' D (1#26' ('4-'
C' ' DT72' C(-72' (
21 1.
C' ' C' 3< ' 6282'
C' --72J ' 4-'
C' --72J ' G(1#26' ('4-'
C' --7 ' 1'
C26(7 B2<2
C28' 729'
C211 ' 7'
C2-7 126' 7'
C 5' 7' D
C (' 7' D(' L#7
C 57' 26' D' 57' K326.'
C < ' 8'
C B ' 78'
C (' 0'
C (6(57'
C (121
C (121' "148 9#G(8' (
@' 7 9
@' #7-' 66
@' -7' 8' 26
@' 3' -6-2
@2729 -7
@2-7 869
@ 9 (<
@(" 7
@ 902 1' E((' (
?0' <6' 7
?86
?-78 26
>' 621- 82
>' ' < 12
>' 11(2'
>' 1-(' 6' L# 1-621'
>' 6' 4-'
>28-' -2 57'
>28-25(1-'
>217 --'(
>2-2 ' 4-'
>2-2 ' L# 1-621' ('
>7 ' 1221
>7 629 (8' L# 1-62' -('
= 7 6 #
>7 6 #' D-72' L ' ¨ 326 1-'
>7 6 ## ' 81' L# 1-62' -#
-72
>7 6 1- 821'
> 6' -2 ' >(8- 1'
> (6 36(--'
> ' (#72-
> (2 01' E((' (
>1' 6-81' E(#' (
A' #7' 26
A257' 0 -21
A27(7(' #W
A2 7#7' 8
A2 028
A2 26' - (8' E((' ('
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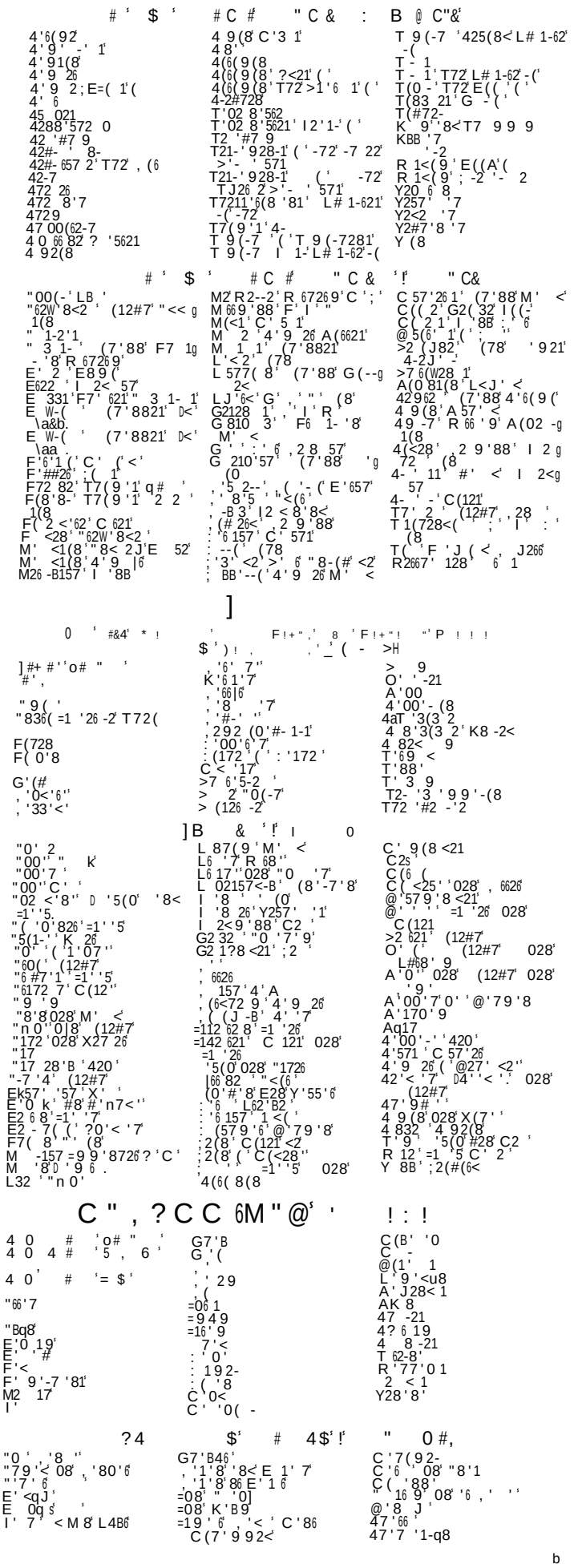
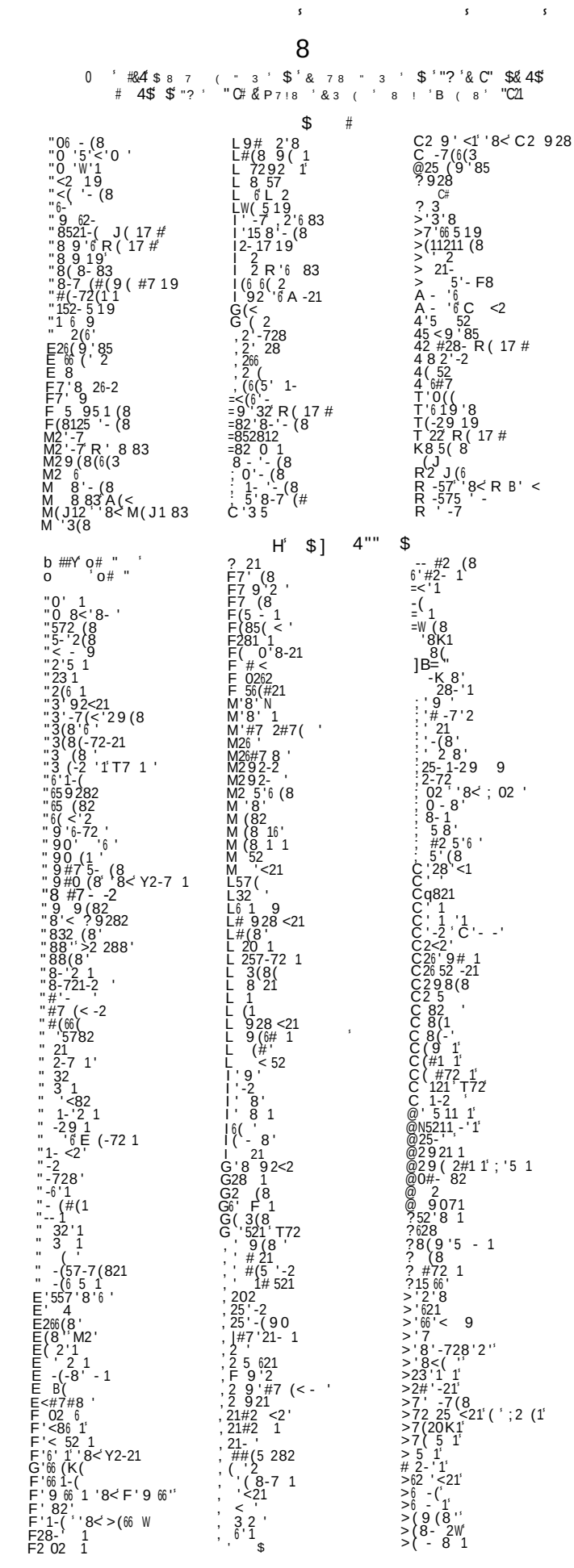
A -7' E((' ('
4' 00' -7'
' << 5221

4:#% = ' & ' 4 # % 1

8





: #% * & 4 % *

& & $4 $ '=

B 4= 3B $

C $

?=4$4#4& '+

4&"B ' $ ' 4 # "

(,L
L#

" 3 2--2
" 3(662--2
"#-(8
E'5 15 '-502
E'6< 5'
E'8<'8''('E'8<'88'
E2o <
E2' 2
E6(12
E(882-
E ' <
E 9 9266'G'E'DE2' .
E 8(1
E 1 8
F'-'8
F7'#2
F7'-26' 82
F '-
F 8(6 82
F
F 9 9 2 0 8<
M2# 6'-(
M(6 9 '8
M ? 1' 'F(9 -

M(062-
M 211
I2 -7 83'62
I (5
G'02 < 82'('G'0' < 82
G <62
G6(2
G(6(17'('G'6(17
G(J8
, '6
, '-
, ((<
,(12
,2 8
. ' (11
E(6-
: (76
C 8-62
C --28
C(5'11 8
C(1-'572
C
@'17'A'DE2' .
>' '1(6
>'--28
>26 112
>2 2

>2-- 5('-
>6' <
>(9 '<2
>(9 '8<2
>(857(
> --22'('> -- 2
O 2 2
A'B(
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4'8<'6
45'
47' 9#((
47 -
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48(J 47(21
4(90 2 (
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4-(5 83
T'0' <
T' 0 17
T(J26
T (12 1
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T 0'8
2 6
R 7 1 2
R 3

$$ &' $ ' B&"4 &

"0 '7' 9 928'
"692'('"69'
"#86' 12'
"# 6 I((61'M' '('"66
I((61'M'
" 61'" 2611'('" -7261
"1''I2'1-'('-72
E'882 1'I2'1-'('
E' -7(6(92J'I'

E' O62'
E'B''
E2'5(8'
E2'8 2'1-
E2' 62'<2
E2<2199'8'('E2'<19'8
E2- (-7'6
E6'5 0'66
E ((< 9(82

E6 21-(5 83'
E(8 2
E((-7
E(8<1'E2'- 83'-72
E(E 17(#
E (
E <2
F'<32
F'6 92-

F'88 0'6 19
F'-' '6n 2
F'-2 '8
F28(-'#7
F7'9# (8
F7'#2662 " <28-2
F7'#2 (8
F7' '
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F7 0(n 2'('F7 0(
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F(32 1' , ' 6
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F '9# A 831
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M 5 83' '8< F 5 83
4-((61
M 288'
E90'69 83
I 1- ((-
I((61'=2'1-'('
G2 17'

, '8<6'1- 83
, '8<126
, ' :
, ' 21-
, 2'6-7
, 2' 12' '
, 2' - 0 8 '6
, 2857 9 '8
, (5 - <2
, (<28 83
, (39 '8'
, (82 9((8
, ((-'7
, (8'M'852
'21-2 '
: 2 ' : 2 '(' : 2
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: (J-(J'(' : (-(
: '9 9 '1
; 2 22
; 57 G'-2
; (< C' (1'M'
; 8572(8
C'15(-
C'-'57 8(1
C 1 62' : (<(
C(8-7#1'C 8<
C(-62
C(89 83
C 9 9

@' 3 62'('@' 3 627
@'7-(7
?<'6 13
>'66
> 58 5
>(1
>(-6'-57
>8 '7''('>(('
> <'6W
L2- 882
4'6''9
4'6 -'- (81
45'6# 83
46(3'8
48
4 9#(1 K8
T' 83' 8<' I2'-72 83
'T28-
T(9 '7' J
28<2--'
1 - 83' F' <1
R' -1
R' 2
R' 8# 9
R'11'6
R' B3'(12
R2<< 83
R 3J' 9
R 2'-7

$$ &' $ ' B&"4 " & ; ! E

&

j #

F7' 621
F(8 '<
I2 < 8'8<
I '85 1

I 2<2 5
' 28 '
' 5
' 921
(78

; 2(#(6<
;'(81'(';2J 1
C' 3' 2-
>7 6 #
R 66 ' 9

? 4: 5 4 :0 4

1

"EEL (=%R%=. j : . 4 == : (.
+ #

"EE?TT ;"KAL@FL D; .
44& % #" ? 4 4 2

"EE?TT AL ;XC"@MM D; .
C? $ > 2

"E@LX 4=A R=; ;=" C ML R= L ;L4;=L : F E M F ;
M4F I A 4 DR <2' R .
?4"4 =?'2

"EA", "C4 =4A"L; C " D= .
] U&' } 0 + DU $ "C# & 4$] U &?'
B @ C"&' C?4# &' fC2

"M"C4 EA"C "@E; "@F, "AM DE E .
#U '&' 6' 'G $ #' 6' # ' 0 '
0 H' $ ' i > # '3 '0 H

A &/ G BN N T A < /B A / >7M I A 4
DI M . E
"&?' 4#B '3 '0 HG 5B C 3 '0 HG 5B $? #4"" '
&# $ &G $C4B% ' &# $ 2

"M"C4 >A?I GL?AGL EKAT?@ " C E M >7M ;6-- M
DG E .
B # & 2

"M"C4?@ A?ELAT C " ; ; M DA .
C4$' $C &G C4$' 4 'G H # ' &?4='G B"# '
&?4=' 3 '0 H " 4 ' 3 '0 H C?" 'G B M' <
3 '0 HG 8 $" 3 '0 H E

"MM=4 AL R=; ;=" C L C " DR L .
? <2 , (6

"MM=4?@ AL M"@=L;MK;"@X DM M .
4" &" $" 8=& 4= # ?B C?2

"=AX ?4CK@M C " ; ; M D$.
$$ > #? 'G B&& ## 4 > ## 'G ? 3" & ' &" #
43G $ ' # 4'G 4 &'] ?$' 4 2

"=AX R=; IALM C =81-F L < 6
C? 4 " ''G > ? $ ' C? $ &2

"=T : L@ ? , @ ; ; M I A 4 D .
B&"2

" : LA4 F, "A; L4 LMR "AM DF L .
A #' (#' 3 '0 H ?# ' (#' 3 '0 HG B'
(#' 3 '0 H

"; "E"4TLA F, "; ?@LA GAL@ =; ; L .
4$ '+ $ $ 2

"; F?F: F, "A; L4 R=; ;=" C DF R .
44" ##' 6 '3 '0 H

"; LQ"@MLA AL R=; ;=" C ;=@M4"X MM ; ; M
DR ; .
#% $' 3 '0 H

"; ; EKTT 4=A T, ?C"4 F; =II?AM : F E C " C M
M 45 ; ; M I A 4 DT F .
&" &" =$G U+ + D' #U &&'
$ "A

"; ; L@ >LAFX 4T" I I ?AM C " D> 4 .
& B& 3 '0 H

"; ; L@ T, ?C"4 R=; ;=" C C " DT R .
, (92 '3 '0 H

"; ; C"@ >A?I GL?AGL ?, @4T?@ C " ; ; M M 45
I A 4 DG .
>-(629 '3 '0 H > -7'3('1' b #' T7'621' 3 '0 H

"; >, "@MLAX >A?I >"K;M"@=L; D> .
$& &'G = &"4# C'G B" + h+ ['G # ## $"&G "C ##'G
$YB &" 4$G]4?$' ((2 0=4= 1G fC2

"@F, L; A?ELAT DA .
4 && ' 0 $ # &' 2 2 G 4$' ']4& =?G 4$% $" 4$'
?' "4$ #G 4 # &' #B 43 "? 'G [hB#" ' [C? ## &G
4B& (2G fC2

"@MLA4?@ "ML; "=ML C "AX C " ' &'
; '0(' ; 23 16'- (8

"@MLA4?@ ?, @ GL?AGL F; "A : C " D 'G F .
$C' 'G $ 4 'G # " 'G 4 B 'G 8 " B$'G 4$" &G
$4=' G fC2

"@MLA4?@ ?4L>, ; ; M [
E' (J F '88(3 ; ' 2 MJ26K831 T 9 6 1

"@MLA4?@ R=; ;=" C I AG 4 <
'#'8' 0 '6 '3 '0 H

"@MLA4?@ ;=LKT F?; R=; ;=" C >"TA=F: C =81; F L
I AG 4 DR > .
L 2' ; ' 2' G 2'-'=' 21' C 57 3'8' ; ' 2' ?8-' (' ; ' 2'
4-' ; 'J 2852' : 2 '' 4 #2 (' ; ' 2

"@MALR4 >A?I , LAELAT T, ?C"4 D, T .
F'-257 928' =38'- 1' ; (3 '' C 11 (81 3 '0 H >(6 5' #'
> 210 -2

"@TA?EK4 4=A ALG=@"; M; "KAL@FL : F C G DA ; \ .
" # $ '3 '0 H

"AELA LMR "AM M; -- I 4 " DL .
49 -7' (78' D\ `$ \a%\.

"AF, LA T, ?C"4 "@MALR C " DT " " .
4'6 '8' 4 6 21-2 ' == ' 30 0 HD' T29#6' 1' 3 '0 H K 1 6'' 4-'
3 '0 HG 8528-' ('E|' ' 1

"AC=T"GL AL ' L; : "@", C " { ' ' M
B= $" $ $"G aU $ 2

"AC4TA?@G LMR "AM C " 3 '
? # & 2

"AC4TA?@G >A?I , L@AX LMR "AM >7M ; ; M I A 4
D, ' L ' " .
$C'2

"AC4TA?@G 4=A R"; TLA < '
? 57' <1(8' 4 ' R' O

"A@MT R"; TLA T"; ; C"MGL " C < ' '
@2J X(' 3 '0 H

"A@?; M F, "@@=@G C " ' '
B&" # ' 6-

0 -

"E4?;M'C"TT,LR' ⅅC'" .
$"+ B%2
"4F?;'>A?I'GA"Y="M=?'=' ⅅG'=' "
"#'B''0H
"4,EX'T,?C"4'C"'M;--'I4"'&'$
"#"'b 0#'M'$'C#&4$"#$'4=4^
=?"$'C?4#4'2
"4,R?ƇT,'>,'=;=>';C"'M RI'&'$'$
#&C+4$'%'#$
b0#$'&"'4$' "$'2%4$6 f☐
$"'
"T,LAT?@'GLATAKML'IA"@:;=@'&?'$
A $4%2F
"T:=@4?@'F"=T"=@'F,"A;L4'IA"@F=4'&'☐'$
C$'%#>'&'$ &'$'4$'I'
"##'"6#C'#B"4$'>'&'
+#'0$$ &6 f☐ "&4 3"'6 $4$6 $3 $"'6 $ 34 &6 f☐
"T:=@4?@'?4L>','EL" =@GT?@'ⅅ'0'$
8B#C?6'%CH6C?4U2
"TR"TLA'R=;EKA'?;=@'>7M'&<'L'$
"CH3'0H
"TR??M'AL'=4"F'C?AG"@'C"'M'$';M'ⅅ='C'"
$%&&#?B C?2
"K4TL@'LA@L4T'L'ⅅL'L'"
="6#&+3#'2 4&YB"4$&"&
"Q?@'R=;='C'LMCK@M"ACXT"GL';M'ⅅR'L'"'"
$C?&"'6 4&C4'>##'6'#34 2

E"F?@'AL'EL@"C=@'R=4@LA'"C'MM';--M';;M
]&'=&"#'43"]B'?'$ #=&"#'432
&0'<'0
E"ML@>?RL;;'C"?A'E"ML@'I'4'IA"4'IAC2;4
&0'□';:0D
8"+3#@$2
E"GRL;;'A=F,"AM'C"';;M'
#$'+ (#
E"=;LX'FXA=;'C"'
4$'#4$2
E"=;LX'?,@'LG;=@T?@'&R'@'0
'=4 "?'?
E"=;LX';=ELATX',XML;;M'&I'0
4"CB#"B'6 'H
E"=@'A?ELAT'@=4ELT'&B'2@0
B$''(#'3'0H6 4#$'(#'3'0H6
U$'(#'3'0Hⅆⅆ$'$'4?'Bⅆⅆ$'
$'U&?'4 =?&2
E"=@L4'4=A' LA ?=4L"'T,L;4T"@L'F4='&R+'$'0
$&B&&4=B#"4$2
4A';I '0'&:'□'0
$'']48&=?2
E"=AM'R=;=";C"A"=C?@M';;M'&<'B'0
"$"&'4## 2
E"=LA',L@AX'IALMLA=F:'C"'M45'IA4'',□',
33$"#YB"4$6B$C"4$'i ',0'
N-
E":LA'K;="@';L LTT'I=F'&R'I'0
$"4$2
E":LA'?AM'C>'I4"'&0
"#&6B&'43"#$'4=CL?@'LEL@'C"';;M'&:'@'0
$'$'U6 4$%'$C$'
E":MR=@',?@'4=CL?@'LEL@'C"';;M'&:'@'0
$'$'U6 4$%'$C$'
E"=L'LMR=@'A='
4C&&&2
E":I?K A'>A?I';=4""F'E"X;LX'CM'IA4'&'0'0
$4&='&3'0H

E"AT;LTT'"CL4'0]2 P2□
B#'$6'=$M6"$6&4$'"6 44386U6
6$#"4$6 f☐
E"AT;LX'4=A'GL?AGL'F,A=4T?>,LA'TA?KT':FE
0 2 2 2□
%$&'$&3'0H
E"AT?;="M?;I?'$'F
"$"B'3'0H
E"AR=F:'GL?AGL'IALMLA=F:'0 2 2 2□
D#3'BH'43'P+4B'6#C'$+BC?&&43&&6
?B#='$?6#%6?"&2
E"4T"E;L'>A?>'F,"A;L4'IA"@F=4'C"';;M'0 2 2 2□
"&$"C&$4$3$C&&4$'6$4$'2
E"TL4?@'C=44'C"AX'T'F
4AB?'h
E"T,LA'IA"@F=4'"AT,KA'C"'M42'IA4'0 2 2 2□
C?$4 6"3&??
E"KLAC"@@',=;"AX'IG4'0 2 2□
$"?C"6 4#Q8'0H'4H'6 B#'6 3"'#=2
E"QL@M";L'R";TLA'0>2 2□
4'3'0H
EL";EX'?,@'T'B'?'F,
B&&&'b0#'3'0H6BC&6"
"&B'3'0H$'4"?'"C#&4$'$"4=4 =?'2
EE"AL'T,?C"4',KM4?@'C=81-FL'C=81;CL'0 2 2□
>"'4"4&&
EL"Y;LX'>A?I'F,"A;L4'A"XC?@M'C"'M;--'
IAG4'IA,1-4'0 2 2□
4#B B&'?&"4=?6 44H'="$6 H#B'"3'0H
$''"?'% "4 6 C"4 6 4#4' C4 3'0H6
"4# "'3'0H6$'"?'#4'4'&4336 f☐
ELF:'IALMLA=F:'GL?AGL'CLL4?@'C"'0 2 2 2□
($ #6 2#"?# 6 4"?&3'0H6 4 P4$&&6>&&P6f☐
0H6C6 4"?B 6 P4$&&6>&&P6f☐
ELF:'E'"AF,=E';M'IA"@:'&$'□+'0
>"#44' =$2
ELMM"AM'IA"@:'L LA4'=="'IA4'DI'L'E.
"?+U46C?6q'3 0H
-'0''''''

'EE=Q' , ?@' "AF , =E" ; M GA"ACL' C =81 ; F L D" 'G'E .
D! (32-(J8' ; ,0' e6 E' G-<'8'

EL ; ; ' F , "A ; L4' IALMLA=F C ?ELA ; X' DF' I ' C 'E .
@ 0kW >'17

3 ' "3 ?A3' & " 3 ' B 4 ' " '
M 121' ; ' E

EL ; ; ' ; $K ; 4' >7 M' '
C (-(1' L625- 5' ' >(J2 'T k81 11 v8 ' % #

EL ; ; ' C" ; F? ; C' DC ' EL .
>2J-2 ' ' 472 26< > '-2' R '--1 ' G2(32' I 2<2 5

EEC?@T' F , "A ; L4' M' |1' ; ' M ; -- ' DF' E .
I '852' + " 0 ' '] , ' ' "88 '61' ' EN ' 9' ' F7 (8 562' '
F(9-8 821' G'15(8 ' 4? 26' "602 -' ' T7(' '5n 21' <2 ' d5

EL@LM=TL' >A? I ' ; L?@FL' '
>' 8- 83' 4 # '1 # 0' ' 45 6#- 2' 4 # '1 # 0

EL@@LTT' AL ' R=; ; =" C' , L@AX' C " ' MM ' M ; --
' '

"8326' "-(82928-' ' E'6' '#' ' E226B20 0' ' G(92' ' , '9' '
#7 -' ; '9257' @ 9 (<' @('7' 42-7

EL@4?@' "AT , KA' F , A=4T?> , LA' F ? ' C "' D" ' F' E .
F7 57' M2 '8

ELA@"AM' LAX' AL ' ?, @' , L@AX' C " ' MM ' M F ;
['4 '
= 26 '8<' F7 57' (

3 / p M' 3A? A' Y3 '
C' W

ELAAX' GL?AGL' "@MAL"4' C A ' I A F 4 ' I A 4 DL56 8 .
" ' '

L 2 '& , # , #,

3/ ' / ' < 3 ' < '
I (11' -' 2 2 21

ELT , L ; ' ; 6LKT F? ; ' , L@AX' "AT , KA' D , ' " ' E .
? <8 '852' 1 # '. # '%I6 # ,

EL "@' LMRX@' A?ELAT' C " ' DL ' A ' E .
"62W '8<2 ' -72' G 2'-' ' M29N- 4' (' C 52<(8 ' ' ' , 26628 19' '
C '52<(8 '8' L9 # 2' ; 1 9 57 1' ' >2 < 5581' ' >7 6 # = ' == '
'8< ' (' C '52<(8 ' ' ' >-(629 21' ' 4262 5 <' > 9 '1-

E , ?R@"GGALL' 4=A' C "@F , LA LE' CLAR"@ LL' : F = L
& ' & ' K
"3' ' : 7 '8 ' 22 22-7(' > -26' A2'< 9(82 ' 4 ' F' ' '
T' 7-1 83

E=MRL ; ; ' 4 , L ; I ?AM' C " ' M 45 ' I A 4 ' D4 'E .
C '382- 19

E=GG' AL ' F , "A ; L4' C " ' MM ' DF ' E .
F629 28-' (' "62W '8< ' '; ' E' >7 6(' ; ' E

E=GG"A' F' A ' R)' C " ' : F' DF' A ' R ' E .
C(J'-' 4 ' ?6 2

E=GG"A' , L@AX' >LAF= " ; ' D , ' > ' E .
F '0(-' (78' ' F' -2 ' '5n 21

E=; 4?@' ? , @' D '
" 57 -25- 2 ' o #, I #' ' e 0 ' '% " E

E=@G , "C' >A? I ' , =A" C ' " C ' >7 M ' D , ' E .
>7 6 ## 82' =16 '8<1'] ,

E=@X?@' ; "KAL@FL' D ; ' E .
E 92 ' (821' 4 ' L' ' F7 8' ' (0 #, #' . G' ; ' J1(8' F25 6'
G(<(8

E=AMR??M' 4=A' GL?AGL' F , A=4T?> , LA' C ? ; L4R?AT , '
: F = L ' DG ' E .
=852812

E=4 , ?>' =4 "EL ; ; "' ; ' D=' - ' E .
: (2' ' ; ' E

E ; "F : ' F' L ' M ' DF' L ' M ' E *
: '173' ' ; ' E
T' [B4 ' ' [' '
> ((2' < 83' 5 ' # E

E ; "F : ' AL ' ?, @' 4KT , LA ; "@M' C " ' ; ; M' D ' 4 ' E7 .'
I '1- 83' ' I2 '1-1' '8<' I21- '61' ' I 22' F7- 56' (' 45(-6 '8<' ; '
E' , 11' (78' ' : '173' ' ; ' E' C ' -72' 8 (-7| ' ('
21 1' ' E' C 'BB 8' ' C 11'6' @21-(81' ; ' E

E ; "F : C"@' >A? I ' LA@?@' , LAELAT' C " ' M 42' D ' , ' E .
E '5-2 (6(3 ' ' ' I 83' ; ' E' ' ; 57281' ; ' E
' < & ' ' < '
@' - (8'6 M20-' ( )# , ,' ; ' E

E ; "=A' " @MAL R' " ; LQ"@MLA' D" ' " ' E .
"11' 83'

E ; ?@M" ; ' 4=GIK4' Di ' E6 .
&&4$'G C # $ ' i ' % H B &&4$'] $'G
?4 & $' B 'G ?4 4 $'] $2

E ; ?K@T' ELATA" C ' > F 4 ' I = F' DE '
$"2

E ; ? R=TY' , L@A=' G' 4' " ' k2' A '
&& =&' $ $ ' 'G = &2 (#| '0 H

E ; K@T' F , "A ; L4' "4>LA' " ? M' DF' ' E .
4? $ ' = $'G ?' = $2

E ; KAT' , LAELAT' R=; ; ="C' C " ' D , ' R ' E .
4 C' (#' 2
@ 4' [&3 / ' & ' A' ['
B " 4$2

E?M ; LX' ? , @' LMR "AM' F?KATL@"X' C " ' D ' L ' F ' E .
I '852' (#' # 1 *

E? ; TYC "@@' ; KMR=G' D ; ' E(.
4 [

E?@"A' "CL4' C " ' ; ; M' D ' E .
4C # & 2

E?A ; LX' "CL4' ? ; = LA' C " ' + ' ? ' E .
M 2<32' 8<' M 2<3 83' + 'G T ' J6 83' 42 8 83' 8<' @2-- 83

E?4"AO [LT' A?ELAT' , ? ; I ?AM' C "FMOR" ; ; ' C " ' I A 4 '
I A " 4' DA ' , ' C ' E .
$' +

% ; > ' G ' > ' : ' : ' < ! ! ; ' $ ' >7 M' : ' < '
=? C"' 4$' 'G 4= B&2

E?KM=@ , ?@' >A? I ' " [GK4TL' M M ' M F ; ' D" ' E# .
4' U ' b 'G $ #'G 4$C# % 'G 4$C4 "'G
4$& &"4 "'G B ' 4 $ 'G C " #&'G $ P' 4 B '
"4? @"4 B 'G $3 ## #"' 'G 4= 'G '## B&2

E?K ; L@GLA' GL?AGL' " ' >7 M ' M 4? ' I A 4' DG' " ' E .
P4#4"#'G " C? 'G =' G "+3 &?' G *9 'G # " 3 &?' ! C?"?' '^
4#4 "' | '0 H G # 4$ $ ' # 4$ 'G 4B"'G f 2

E?K ; GLA' ML CLTA=K4' F , "A ; L4' +M' F' E .
B ' Rb 0 #' ' '" $"U =' G B &'G
B&& #&G 33# &' ' " 34 'G 4B $ 2

E?KAF , =LA' "CL4' M" =M' C " ' I A G 4' D ' M ' E .
"? $&'G #H $' $ $&B# 'G B# 'G " ' b 0 # '
' $ ' + ' (#'G C ' b 0 # $ '
+ ' (#' [H " "B ' | H' + " C 4$ G
4$" $ 4'G fC2

E?KA@L' >A? I ' G=; ELAT' F , "A ; L4' C " ' M 42 ' IQ 4 '
I A 4' DG' F' E .
$"?4A4 'G 4 #+ 3&2

E?K44LT' >A? I ' R=; , L ; C' DR ' E (.
$" C? &"'G &# &'G $4&" C & 'G # $" $B& $ ' "? '
$" $ $&2

E?KTL ; ; ' AL ' F , "A ; L4' C " ' DF' E .
33 & | '0 H

E? R LA' >A? I ' IALMLA=F :' ?A>L@' M 45 ' I A 4' DI ' $ ' E .
43 &" G 4?#' B 4' %4$2

E?Q' AL ' GL?AGL' , LAELAT' C " ' DG' , ' E(.
]4?$" ?' =" &"'G]4& =?' |q >' H"]B # ' '43'
3 '0 H G ?B 'G ?'# C" "' | '0 H G ? H $?'G =? '
0 H" ' $ ' ?B 2

B@ 3' 7 ' 6' ' 7' "3B "3' A A' & ' A A' " ' A'
4# ' 2 2 | '0 H' M

EA"EA?? : ' 4=A' LMR "AM' R=; ; =" C ' F E ' I 4 " ' DL ' R ' E .
B # $ ' 4C " &' '" '" $ #'' 4C " &2

EA"MI?AM' >A? I ' ?, @' A?4L' C M ' M 45 ' I A F > ' I A 4
D ' A ' E .
8 $ '" & & &' | '0 H

EA"M ; LX' LAX' AL ' GL?AGL' GA"@ =; ; L' C " ' M M
0 2 2 21
" $# ' ' $2

EA"M ; LX' , L@AX' C " ' >7 M' D , ' '
$ # &?' " "B ' 0 21'G 4UB#3'G p ?4$'G '$ UB#3'G
? $ '!' 'G # &'G # $ 2

EA"L : 4T"M' , "@4' ; =L@' D , ' ; ' E .
4 U ' ' (#' c1 * #

EA"CRL ; ; ' LMR$ ' I A F > ' I A 4 DL<= . ' DL ' F
'&" ' | '0 H

EA"@M=@' >A? I ' ; ?K=4' C "KA=FL' C " ') ' T ' F '
$ #4+ 4 $' " "B 2

EA"@M=4' 4=A' M LTA6F , ' : F = L ' I A 4 ' A ' '
H | '0 H

EAXFL AT ,?@ "CL4MF ;M ;-- [1- 8 8 = T72(< T 0(8 8 K8 -2<4-21 (6p
e)# # [8 & 6 # 2 @ 83 # EKF:;"@M AL "KGK4TK4A?ELAT C " D C"
EKF:;LX "CL4 C?@A?L MM ;M D C E . C2-7(<19 L # *# EK:;L@"AT "KA ,L@AX D" , A . E -(8 A(02 - ? ? @ ;i' 3A< A 4 N " / % , E =- 6 e# " 0 E6 6(<" . >(9#2 . >-(628 (12 > -72 1 A7(<21 . d5
EKAMLTT 4=A ,L@AX :GE: F ? D, E- . ,(1# -6
EKAGL44 "CL4 F = L ;M I A 4 DL<68 . D E1 . =8< 8 " 57 -25- 2
EKA :=TT >A?I IA"@F=4 FA"RI?AM C " M . DA F E . E 062] # ' # , #] "0#(6 T7(9 1 4- E
EKA ;=@G"CL LMR"AM? 3 $B 3 " C >7M DL ; E . E ((' I 9 6 A #62 (G2(32
EKA@ AL "@MALR LRE"@ :C " M M D" L E . F7 57 F 22<1
EKA@4=ML >A?I R=;;="C C " M42 ;M I A 4 DR E . G (#1 T72((EKA>LL ;"RAL@FL ?,@4T?@ = E . $ % h 1 6 "" U 2 EKAA?KG,4 ?,@ D E . > ? " $ #"2 EKAA?R4 L@ R=@IA=M ?;#T6L;M C " DR $ E . &4#B" 4$6 &&43 33 4V6 43 "4$@ 6 &34 "? 2 + % [B/3G4 [# M E 5 E 6 I 20 5 E CH E R=;;="C C " I F4 DR E . EKAT?@ E6 # > ; U44]4 ?2 CH 8 @@ E6 # &&' +C4"" ' 1- 8 8' = T72(< T 0(8 8 K8 -2<4-21' (6p
' e)# # ' 8 & [6 ' &3 # 2 # ' @ 8 & [& 6 '

i

&G' < 3 ' &' < '
4((-0' 6'. # '; ' E

F"C>EL;;'4=A'IA"@F=4' ';; M'IAG4'I4"' D ' 'F'.
E6 8<8211' '

F"C>EL;;'AL ';LR=4'>F;';; M' D;'F.
(J2--' >6'-(' 4(#7(5621

F"@" 6"@:A' DIAF.'
" 5'';' EG' L3 #-' ' E' @ 32 ' :62' R' ''
428 11' 4(-7' " 5'' ' .'T62 9228' 5-('7' 1',

F"@@LX'C"KA=FL'"AT,KA'C"' DC'"'F.
E' '=*' 6':' 6' F(82' 4572 6 26'M'8 26

F"@T?A'>A?I'C?A=TY'>7>' &'
;2(8' <(' ('>1'' 4-2 8 1'4 -8(8' 2-'' I '85(1

F"A;X;L'LMR"AM'=A @G'C "'IA, 1-4' DL'='F.
M(1-'C'7(9 92<' :7'8

F"A?L' R=;K"C' M?AG;"4' C "' >4"' IA=A"
DR'0'5
>2' 1(8' (78';(370((37

'I % '' I' >'"3B "3'43 3 ' "' '' '
"8-' E22' F(62(#- '' L8-(9#6(3 ' ,29 #-2 '' ≡8125-'
? - (#-2 '' d5

'I % '' ' 7' ?4L>,' L4T;=@' C "' M; ' >A '
M T7' D 'L 5.
A26 3 (8

F"AA'R'EA?AG,T?@' <' '
E22'I 1 0

? 43 /' B 3 ' A' '
G' 5 'M' <'DJ'0 H

F"A4?@',?R"AM'"M"C4'" C' D,'"'F.
T 8826

F"ATLA'";ELAT'F,"A;L"'A?E=@4?@' D"'F'A'F.
" -'4(5 2-21

F"A LA'T,?C"4'G'C "',F' DT'G'F.
" 2 '32' 4'6 '32

F"4L'T,?C"4'C "' '
" 1-(-62' ;(3 5' C2-'#7 1 51

F"4>"A='C"Q=C=;="@'?TT?'E=4C"AF:'C "' L'$'E'F.
G 2252' (#Z' ,L' I 1 ' '"57'2'8' ;2'I a' " 3(1'
#' "-7281' ' 0 H' F(8-7' 3 ' 0 H' ,'88 0'6'
\a$'= '3h 0 ' 'O#h A' >2 5621' > 8 5'R' 1' d5

/ 3'3"3 B '& 'N / ' '
E(('>6'-21' I285 83

F"TL4'R=;;="C';=L4T'AL"MR=@' DR';'A'F.
E(15(57'P F7 (8(6(3 ' ' E

F"T,F"AT'L'>'CM' DL'>'F.
@ - -(8' ' E

F"X;LX'>A?I'"AT,KA';;M'IA4' D"'
F 2' ' .'M2-2 9 8'8-'Ln '-(8'G 41':'L'*C(832'
G'1#'<' @ 902 1'>'--(8'('4 '52' ' E

F,"MR=F:',LFT?A'CK@A?'C"' D66'C'F.
"836(4'W(81' E -'8' ." * $ G' G(-71' e 0'
= "6 "#G' -21' ?<8' T2 -(8 5' ;'83 '321' T2 -(8 5'
>2(#621' T7('' R#<28' d5

F,";CLA4' 4=A' C"F:L@Y=L' M";YL;;' :FE' F4=
&'A' K
E 8'('LW57'832'' 4'62'('G?(<1

F,"CELA;"=@'>A?I'";LQ"@MLA'IA"@F=4'" C '>7M
D"'I'F.
=8< '81'@(-7'"92 5'8

F,"CELA;=@'>A?I'T,?C"4'F,A?RMLA'" C '>7M'
;; M'M 45' DT'F'F.
K8 -2<' 4-'-21' e# " ' ' E

F,"CELA4'LMCK@M':LAF,L LA' DL':'F.
F6(37'"',''47' 21#2' 2' ' 37'8'T7(9'1

F,"@LX',L@AX' "CL4'=4?' D,' 'F.
R2 37-1'8<' C2'1 21'* # ! ' '(#

F,"@@=@G'>A?I'LMR"AM'>7M' DL' K'
"<'91' (78' "<'91' (78'O 8F ' "<'91 4'9 26

4 I$ '";IALM'C=81-FL' ' K
4 3' '*6" '4 6! 6#' ' E

F,">C"@'>A?I'4XM@LX' ?,@'C "' D4' 'F.
F(--(8'4 Y# "' '*6 'G' F(--(8'C'8 '5- 2

F,">C"@' ";L@T=@L'R";6 A"@' ' < ' K
4 3' '*6" '4 6! 6#'! ' E

F,"A;L4' AL ' AOELAT' ,L@AX' C "' M M' M;--
DA',' F.
"#(5'6 #-5' ;-2 '- 2' "#(5 #7'6' ;-2 '- 2' L8(57'
E(('(' 2 28 ' L# 1-62'(' 0 6221'E(('(' C(121'"11 9#g
-(8'(' A2 26'-(8'E(('(' 4(6(K(8'T72'>1'691'(' *##

K '%3'!;'%K '4 ' (' ' 7 M DL-'5 .
I' '!' E

F,"TR??M'"'E'C=LL' ' 'K
;(5 '4'621'4-(83 (?91'8< ' 6-1

43@ 3' ' 7' T,?C"4' :L;;X' MM' M='--' ;;M
DT':'F.
"<'9' F'8''8' F'8''8-21' F(19(3(8 ' M26 32' T72'
L<28' L1-72 ' =1' '7' 2 29 '7' >' '<12' 42 '#7 9 'd5'

F,=A?;' ";L@T=@L' D 'F.
F7 8''], ' ' E

F,=4,?;,'GL?AGL'G?KM=L'C " DG'G'F.
L (#2' e#" 0' ' * , , 456' e#" 0
* , ,'!' E

F,=4,?;C',KG,'C "' 4' K
"1n -7' E'6(' F7'902 6'8' A(1202 '' = (8' Ck1'
>'6'928-' A2# 2128-'-(8' d5

F,ALL'F,"A;L4'C "'M45';;M IA4 ' K
" 8(1#72 2' L625- 5-' " (' >(6' 1' L'-7' F - 28-1'
Ck382--v9'T2 21- '6

F,E=4T=L'A=F,"AM'D ?>;LX' DA'F'F.
45'6 32' ' E

4 @/ 'I' >'B3B "3'& ' A' "' K
>'45K6' ' E'G' >2 #2- '6'C(-(8'' A 29'88'G2(3

F,KEE'G'F' DG'F'F.
F -(6(3

F,KEE';"KAL@FL'RL@4;LX' '< ' K
49(2' '! E

F,KAF,' 4=A' "AT,KA' ,LAELAT' C "' M45' IA4
D"',' F.
> 28-1

F,KAF,'F?;?@L;KL?AG'L"A;' DG'L'F.
" K'1(8' ? 8?5 ' >6'-''A ('<2'6'

F,KAF,'T,L' LAX'AL 'A?ELAT'R=;;="C'C " MM
DA'R'F.
;(90' <1' 0#'q " ' '5

F;"A:'";ELAT'FKAT=4'C "' D"'F'F.
F 52 (' T72(5 - 1

F;"A:'F"4>"A'4T"@;LX' DF 4'F.
:'17' ' E

F;"A:L' F?;' ";LQ"@MLA A?44' AL ' FE' IA4
D"'A'F.
L' -7 I 3 2'(' -72' ' E'G' G2(<21' ' E'G' C'#'&
I# ,' ' E

F;"E:L'LA@L4T'CM'IAF4 DL F .
1(8'% ,'!'o#!

F;"A:L'4=A'GL?AGL'4XML@,"C'GFCG'GF=L'IA4
DG'4'F.
F('6 83 4-'-(81' L3 #-' 4 ' b # ,'@CCD CCs6'
G 25(T 17'R' ' ` b

FA"A:L' ?,@'";GLA@?@' [' '
F(8 83' !' E

@' : ;'CKA=L;'DC 1'L<J'<'R 6<2.' D"'C' 'U
"3' '8' ;'J1' ' E'G' F28- 9 '' F '' M25 ('
C 85# 9'' >'-(8''8<' F628-' ' E'G' 428'-2'' d5

F;"XML@'"AT,K,'R=;;="C'C "' D"'R'F.
F6(<

F;"XML@'>LTLA'R=;;="C' D>'R'F.
E 37-' #78

F;LA:'MKG";M'C 671-FL'IA4' DM'F'.
G'1'L83 82'' ? 6'L83 82

F;LA:4'"G@L4'C"AX' D" C F.
"1-(8(9 '] , 'G E '72' T 57('' F(#2 8 5 1'' I6'91-22<''
,'662'' , 3281'' :2#62'' Y(<'5'' d5

NNB A'/ '4?"4' 4 3/'T & "' 4'
E(82('' C'6'55'' C'6' '>28 81 6'' C'6' 1'' C'6' '4-'-21'
%# # #'G 4 83'#(2'' 4- ' -1'42--62 928-1'' d5

BAA'3A< A' {'
E'2

F;?4L';=LKT F?;' F,"A;L4' IALMLA=F:' AL ' FCG
'N'
C'#'& I# ,' ' E

F?F : E- A= ' 4=A' ?, @' " ; EQ" @M A ' : O C G ' C $
D " F? .
4(-7' " 1- '6 ' '] ,

F?G, ; "@' T=C ? T, X' " KGK 4T6@z ' -4 ? ' DT ' " ' F .
" 1- '6 ' ' @-J' 4(-7' R '6N1' e# " 0 ' ' * ,] G'
O 22816'8<' e# " I 0 ' ' * , ' ' 4(-7' " 1- '6 ' '
e# " 0 ' '* , ,'S --(' ' e# " 0 ' '* , ,'G [

F? : L -' G / 3 ' AA@ 4T' GL? AGL ' = " ' M 45 ' A 4 L< 7.
DL ' G ' F .
> 662

F? ; L ' " ; " @' 4 K C C L ; X ' F E ' . ' F .
E -5' <2' P F ' #2-' ' L-80 #-<2 ' ; ' E'G G(6<' ! #< 4 6 2 '
T7 2' <' ' = '52' ' T '#21- ' ' T2 : - 62 > #- 83 '. ' '. 0 #p
" ' ' R2' 83 '. 0 # " ' ' '.

B 3 'G BN ' " [? ' 4 % 4 4 ' C = 4 ' +O ' " ' ' F *
= 26'8<' e# "

B 3& ' G BN ' 4 ? ' NK 3 & B ' C " ' >7 -. ' I A 4
D" ' >P' F *
F'6 '<' ' e# " 0 ' ' ; '0 '<(' ; ' E' ' X- (8' T2 -(

B 3 A" 3 ' 3 ' ; % ' 3 @ ' &3M ' 3 ' 4 '
E (8

B 3 ' G BN ' B 3' IALX ; =@G, KX4L@' #7 M
D- ' I ' F .
F' -7'32' 4 8(<1' (' 6 721 1 ' F(856 ? ' F629-8-' %Q '
; #, E' = G 23(' Q66 - Q ' ; #, E' =88(528-' =Q Q=6= '
; #, E' ' >' 6' === ' ; #, E' ' > 1' === ' ; #, E' ' K 0'8'
==' '8<' === ' ; #, E'G [

B / ' ! : K % ' ' 7 ' < ! ! $ ' (' ' $ '
DR ' L ' F (.
"#(1-(6 5'6 F(8i- - (84' F # 1' F7 57' (' ' L1-'0 : 17928-' P
L 57' 1-' o#,#) ' ' ; 0266'- 5' ' T' -' " 570 17(#' '
T21-' 928- 8 ' M(9 8

F? ; ? CE' 4=A' ?, @' F, "A ; L4' AL " MX ' : F C G ' D ' F ' A ' F .
C' 821

F? ; =@' 4=A' 4=M@LX ' C " ' ; ; ' M 6 -- ' D4 ' F .
" - ' ' E(-- 5266' ' I 82' " -1' ' I6 ' W9 '8' ' G (--(' ; 2(8' <(' <' '
85' ' C 5726' 8326(' ' "5

F? ; X" A ', L@AX ' "@4L ; C' ML ' : F ' D, ' " ' <2' F .
G ' '8-22

B&@ / " ' 8 ' R ' D ' 5 ' F .
E6' 2' R K ' 8

F?@"@T ' F, "A ; L4' "AT, KA ' DF ' ' F .
E'8 1' '8<' E'8 83' . # ' T 1-' F(9#'8

B A3 ' ' ?A3' 3b 3 ' ' A ' ' '
G'6 622' ; ' E' ' G'762?' 42' ' (' ' E

F?@R "X ' >A? I ' A? ELAT' 4LXC ? KA ' C " ' M ; 6 -' DA ' i ' F .
L- ' ' = "6 "#' ' =-' 6 '] , ' D" .' ' ; '- 8' ; '83 '32' ; '
E ' ; 3 ' ' . 0 # " ' ' &0 " ' >? 9#2 ' ^, '
5 , ,' ' A(92' '. # '] , ' ; ' E' ' 4'0 8 ' '
(6'5 ' ' d5

B < @' / ' < ' $ ' % ! ' < ' L ' F .
C(8-' 822 83' C-11'#

F?@XEL "AL ' IALMLA=F : ' F?A, R " ; ; 4 ' C " ' M T7
DI ' F ' F .
" 8'0'#- 1-1' ' " 8521-(' ' J (17 #' ' "#("- 83' ' " 928 '8
F7 57' ' " 928 '8' 83 32' '8<' 6K-2 '- N' E'#- 19 ' '
F7 1-9 '1' ' I 82 '6' A - 1' ' 4'5 '92 -' ' d5

FO? : ' 4T" @ ; LX ' "AT, KA ' C " ' D4 ' " ' F' .
F7 (8 5621' E((1' (' ; ' E' ' F(1- 92' . # ' b # ' '
LW(< 1' T72' ' G282 '6(3 ' + ' ' -2 J ' b ' #, # '
], ' ' : 831' E((1' ?' ' >'621- 82' b ' #, # '], ' '
4'9 26' E((1' (' ' 0 (3 '#7 21' (' E 06 5'6' 57' '5-2 1' ' d5

F? ? : L ' F, "A ; L4' R " ; ; RX@' A" MFRIIE ' I ' DF ' R ' A ' F .
F<2

F? ? : L ' >A? I ' GL? AGL ' " ; ELAT ' C " ' M M ' D$ ' " ' F .
?<'28'-7 1' ' >k69 ' ' >2- ' ' >7(28 5 ' ' 4< 8' ' T 2' ; '
E' Y28(0 '

F? ? : L ' AL ' GL? AGL ' R = ; ; =4 ' DG ' R ' (E
K8 -' '8 19 ' L # ' * #,

BB A" 3 ' ' 7 ' < &' ? " ? / ? /' 3 BB ' &
' I A G 4 ' >7 M ' DR ' " ' E ' F .
4J -B2 6'8<' e# " 0 '] , ' '8<' v]# 6 #' T266' R 66 ' 9' '
' - 5621' (8' 4J 11' , 1-(' '8< T(#(3 '#7 ' k 6< 0 (3 '#7 21' ('
4J 11' 1-' -218 28' 157(6' 1' 1(6< 2 1' d5

F? ? AL ' GL? AGL ' E " A@ " AM ' C = ; E " @ : ' DG ' E ' C ' F .
L< 5' - (8' j ' * , #

F? ? TL ' F, "A ; L4' , ' DF ' , ' F .
, ' 6 -' ; ' E

F? > EC "@' 4XM@LX ' C? @F : T? @' C " ' C M) I A F > '
C A F 4 ' I A 4 ' D4 ' C ' F .
22 8' - (8'

B ' < ? &' ' & ' < ' ' M ' .
C' -72 ' F(--(K ' 4#' 1' ' 2<

%% K ; > K ' : ' ; $ * 8 '
" 01(#- (8' (' ; 37-' F'6(2152852' F(6(' M 1#2 1 (8'
I6 (2422852' >7+ : #7(215N752

B B ' [& 3 / ' / A 34 A & [' [' / ' ' J
=8< ' ' e# " 0 ' ' * , ' ; ' E' ' 8<] , ' ; ' E'
, '1- 831' R 'T 28' =8<(2' CV '--'1' ; ' E ' ? 57K8<'
? 92

G? K ; T? @' GL? AGL ' G? AM? @' C " ' DG ' G ' F (.
F26 0 '5 ' F(85 0 8'32' =8< 632852' : 8 37-7((<' '8<'
F7 '6

F? KET " K ; M ' ; ? K=4 ' C " ' CA F 4 ' ; A F > ' D; ' F .
T 9 (

F? KAT@LX ' R = ; K " C ' >A=ML " [Q ' DR ' > ' F .
E'-7' R ' > 6-282 ' C5 n 211' (' C ' 60((37' M 2' ('
? (<' L ' 6' ? ' D4 ' A(02 -' R '6#(62.' ' ?W (<.' 1-' L ' 6' ('
>2-2 0((37' '8< C(K8(-7' L ' 6' (' A(116 8' L ' 6' ('
AK112E' L ' 6' T(? 2' (78' , (92' R '6#(62' , (' - (' R 6 21'
(78

F? R ; LX ' " AT, KA ' LA@L4T ' C " ' M ; -- ' D" ' 6
, 20 2J' ; '83 '32' , 20 2J' ; -2 '- ' ' =08' G '0 (6' =8g
15 #- (81' * # G 4 '9 ' -'81' 42' < '7

F? Q ' I A ? ' = 4 " " F' ?4 ; =@' > AM ' D= ' ' F .
T' 6(' Y '50' ' R 6 81(8' '921

' 5 %K ' I 3 ' & % : + ' K + : K ; ' & ' 5 I '
DC ' ' 5 .
U' "6 '0 '9 ' ' j ' " 0 - '- (8' "-7 - '- 08' 5 # ' E2 83'
42' " 0 - '- (8' , 2 157266' ; (<' C2< '- (8

FA" = L4 ' R , = " C ' IA= ; ML, ' C " ' DR ' I ' F .
F'# -'6 > 8 17928-' F 9 8'6 ; ' J ' G' 82' ; ' J1' , (9 5 <2'
' >62' < 83' T '<2' C' 1' D J E' ' T 2' 1(8' T '6' d5

FA" = G=L ' CA4' D (78' ? K 9 ' , (0021j . ' D> ' C ' - ' F .
L6 (-' G2(32

FA" ; ; "@' IA" @ : ; X@' " AME@' DI ' " ' F .
R((< F' 83

FA" @L ' R " ; TLA ' DR ' F .
" -1' ' <' F ' -1' " -' T2'57 83' C '6 M25('- (8' ; E
<N A ' N /' & B ' & ' '
A(92' 0#' 4 # '(

' 5 ' " G ' 3 T ' < ? [& ' I ' ' N /
' D ' R ' F .
'8#'41; J' #+J *

GAL=G, T? @' F, "A ; L4 ' C " ' C M ' DF ' F .
C(81-2 ' D ' . ' C('38 ' 4 32 '] ,

g3 " %B ' 4 ' ' 7 ' & U ' A ' A ' &'
R '6<28'21

FALRL ' T, L ' AT ' , ? @' T, L ' L " A ; '? > ' : a ' DF .
E'7 E2 ' F72 0 6 2' ' ; '# '<2

FA TF, L ; ; ' " CL4' TA? KEA=MGL ' D ' T ' FA .
OK228<' <'] ,

B& 3 ' ' 7 ' [& 3 / ' & ' [' & '
; 57281' ; ' E

" BBT 3 / ' ; ! ' ' < ? & ' B & ' G / ' < ' b
G2 -' " - 5 '6

FA? 44 ' F > I F 4 I ; F ' DF I F .
F2 6(12' I 0 21

FA? KF, ' , LAELAT' F, " ; KFL ' C A F 4 ' D, ' F ' F .
"8'21-721 '

FA? R L ' ; = LKT F? ; -' ?, @' ' K ' 6' 3 A3 '
D ' , ' ' F .
>62 8' ' A 11(T 10' R 'T' \`cc \4c`' ' 47 # '' #'11

FA? R L ' 4=A' ? 4 L >, ' " AF, LA ' : F C G ' D ' " ' F .
F '8'57' F #' L 5 ' '8' , (002 9 ' ' , (602 8' C296 85'
; ' . ' @22 ' ' 6' <2' ; ' . ' ?1-' <2' ; ' E
? & G ' 4 3 / ' " 3B " 3 ' & ' ' " ' '
C '8(' ; '% " . ' A25(<' 0

FK@@=@G, " C ' ? i L > A' T, ? C " 4 ' C " ' # B 1' DT ' # ' 5 .
"857(' F2#0'6(#(<' L26' , 2 83' ?5-(# 1' >2' 6'
657' <' R 7 -20' -' d5'

FK@@=@G, " C ' T, L' L@' R =; K " C ' C " ' M M ' DR ' F .
I 22' T '<2'

' ' ' - ' ' ' ' 0 ' ' ' ' ' -

@ FK@X@G , " C L ' 4=A' , L@AX' , " AM=@GL ' : F E' D , ' , ' F .
F6 ' ' R '-57' $ E

FKAT=4 ' LMCK@M ' C " ' ' DL ' F .
A(32 ' G 15' <' ' A(32 ' = ' '8< 66 ' (' 4 5 6 ' ' R 66 ' 9' = ' '8< == '
(' 4 5 6 ' ' U

M" ; X ' > -? I ' R = ; ; =" C ' LA@L4T ' C " ' C =81- F L
C = C 227 L ' DR ' L ' M .
E2' 831' ' M 8'86(92-2 ' ' I 5- (8' ! ' E' C257'8 51
. # ' ' E' > J2 ' T '819 11 (8' 5 6 ' '8<
4 # 0 ' ' A' 6J ' 1' =)#' & ' #

M" ; L ' T , ? C " 4' I ' C " ' DT ' I ' L .
>(6(

M" ; ; "4 ' ' C ' C ' D ' C ' C ' M .
M ' 37-1' D ' E

M" ; T ? @' ? AC ? @ML ' C "MM ? F : ' C " ' I 4 " ' D$ ' C ' M .
F '-'5(90' ' E

M" - AALKT , LA ' LMR "AM' GL ? AGL ' DL ' A
; iB-

M" A ; ? R ' AL ' T , ? C "4' , LAELAT ' C " ' DT ' , ' M .
E 062' 4(5 2- 21

M" AR=@ ' 4=A' GL ? AGL' , ? R "AM ' , F E ' M 45 ' ; ; M
I A 4 ' DG ' , ' M .
T <2

M" L@ > ? AT ' FXA= ; ' ' , ' I 4 " ' DF ' M .
E((0 8< 83

A A / ' G BN ' K $; ' (! ! $ ' K 6 ; ' I ' #7 M
3 ' ' A ' # .
E <<7 '' E <<7 19 '' ' 81' ' ; ' 9 ' 19 '' ; 90 8 '' >' 6 '
> # ' R '' i ' 857 '' d5

M" =M4 ? @' AL ' " AMALR ' E ' C " ' M M ' D" ' E ' M .
(0' D 8' E

M" =M4 ? @' AL ' 4" CKL ; ' M M ' D4 ' M .
F '8(8' * 6 #,

A A/B ' 4B & / ' A ' ' A
; (83 266(J

M" =M4 ? @' AA ? I ' R = ; ; =" C ' ; L4 ; =L ' C " ' ; ; M ' DR ' ; ' M .
E ' 8 ' " 62W ' 8<2

A 3 / ' 4 ? ' 3 < 3 @ ' ' ' A
@236 32852

M" =4 ' , L@AX ' R = ; ; =" C ' F " A ; L44 ' C " ' D , ' R ' F ' M .
E25 2-' ' G (412-21-2 ' ' , 18 ' = ' == ' '8< ' === ' ' , 28 ' ('
, 8- 83<(8' ' (69' D" 83 ' ' ; ' 8 ' 85' ' ; ' 83-(8' 4-2#728'
C ' --72J ' (' > ' 1 ' ' C (8- (- ' 4 9 (8' <2' G' A 57 ' < ' = ' ' 4-2#728'
0 !!E' G R K ' 9 ' = ' '8< = ; ' ' [

A / ' 3 ' [& 3 / ' & ' [' A
, 21 (< ' E'

M" =4 ' A ? ELAT ' , L@AX ' DA ' , ' M .
M 2 1' ' 8< M 83' " ## ' ' - 1

A / ' G BN ' (! ! $ ' C ? AA=4 ' M 45 ' > 7 M ' DR ' C ' M .
" 92 5 ' ' &0 , ' e# " 0 ' G @(-7' " 92 5 ' ' K8 -2<
4-'-21' &0 , ' e# " 0 ' ' 8< (#

M" R : =@4 ' > A ? I ' R = ; ; =" C ' E ? XM ' M 42 ' I A 4 ' DR ' E ' M .
F ' 2

M" R4 ? @' GL ? AGL ' C LAGLA ' ; ; M ' I A 4 ' DG ' C ' M .
E -17' F(6 90 ' ' D 8' E

M" X ' ; LR=4' I ? AL C " @ ' I 4 " ' D ; ' I ' M .
G6'11' 4-' 82<' ' ? 8 ' 928-

ML" F ? @' GL ? AGL ' I ALMLA=F : ' ; ; M ' C =81- C L ' DG ' I ' M .
R '-2 ' 4 ##6

MLL ; LX ' A=F , " AM' C ? K@TI ? AM ' C =81- F L ' C = C 257 L
I G 4 ' DA ' C ' M .
; 0 5'8-1

A3 34 @3 ' 3 ' 4 GGB @ 3 ' / [' 4 ' A
E(66'8< 1-1' ' F '8(8 B'- (8' ' , '3 (6(3 ' ' '8 ' 1' 4-'
; ' J 2852' 4-' G' C ' 3' 2-' 4-' ' C ' - W(6(3 ' ' 4 ' 8-' ' d5

ML@MX ' > A ? I ' " AT , KA ' M 42 ' I A 4 ' I Y 4 ' I ; 4 ' D" ' A
4#(8321

ML@@=@G ' R = ; ; =" C ' I ALMLA=F : ' I A " 4 ' DR ' I ' M' .
-2 ' C2-2(

ML@T ' LMR " AM' ? 4L > , ' C " ' C 1 E ' 5 ' DL ' ' M .
M '8-2' I ' 85215(' ' G ' 6 ## ' ' ; 2(' ; 2(8' <(' ' >2 3(621 '
45' 6 ' -- ' " 6211 '8< (

A3 < ' / ' [& 3 / ' A ' N / ' [' A '
; n <G' 121'

ME`M=@ ' F , " A ; L4 ' I A G 4 ' DF ' M .
; 2 0('-' ,0

M=EM=@ ' 4=A' ; L R=4 ' T ? @@" ' C " *' M F ; ' I 4 " ' D ; ' T ' M .
=852812' o 6 ' L , #' G ; 85(7' <3928-

M=F : 4LL ' ; " R AL@FL ' A ? ELAT ' C F (9 ' I F " ' D- ' A ' M .
E((22# 83'

M=F : 4 ? @' > A ? I ' , L@AX' @LRT ? @' C " ' M 45 ' I 6 4 DL < 8 . '
I A G 4 ' D , @ M .
" -6 ' 8- 5 ? 52 ' 8' E ' 6- 5 42 '' M212 -' ' =8< ' 8' ? 52 ' 8' C2< -2 g
' 82 ' 8' 42 '' C2W 5(' G 6 ' ('' @(-7' 42 '' @n J23 ' 8' 42 ''
> ' 5 5 ? 52 ' 8' ' E ' A2< 42 '

M=F : 4 ? @' 4=A' ' IALMLA=F : ' 6 F C G ' D ' I ' M .
F2 6(8' ' E

M= ; : L ' ; " MX ' DL ' I ' 4 ' M .
G 2 B2' =83 21' ' C 662-' ' I

M=@L4 ' R = ; ; =" C ' , L@AX ' I A 4 ' DR ' , ' M .
"829(92-2 '' : -2 6 83' ' E

M=$@@^ ' @" AF=44L ' LKTA ? >L ' C M ' ; ; M ' I A 4 DF ' 8 .
D@ ' L ' M .
F7 ' 9#6 ' 8 ' 4 ' 9 26' <2

M=Q ? @' > A ? I ' I A " @ : ' , " =G , ' > 7 M ' " C ' DI ' , ' M .
A ' 6J ' 1' . # ' o ' ' =#" ,

M=Q ? @' F " > T " =@' ' R , =T ; X ' A @' D ' R ' M .
" 857(' ' E (' ' F ' 062' ' F ' #1-' 8' ' ; (3' ' > 6(-' ' E

M ? E4 ? @' " K4T=@ ' ; ; M ' D" ' M .
"<< 1(8' ' E' ' F721-2 26<' L ' 6' (' ' I 26< 83' , 28 ' '
, (3' -7' ' : ' 9 ' 88 ' " 83275 '' ' ; (5 2 ; ' 9#1(8' I ' ' > ('
C ' --72J ' ' A 57 ' <1(8' 4 ' 9 26' 4-2262' 4 ' A 57 ' < ' E'
4-2 82' ; ' 2852' D J' E

M ? E4 ? @' GL ? AGL ' DG ' M .
4 ' 6- (' C 57 ' 26

M ? E4 ? @' 4KAGL ? @ C " ? A ' GL ? AGL ' LMR " AM ' C " ' C E
I ' Y 4 ' I A 4 ' DG ' L ' M .
C(62' D 8' E' ' 47 2J' ' ' 9# 2

M ? MM ' F ? ; ? @L ; ' ? , @' A=F , " AM ' A " C F ' C M ' I A F 4
D A M .
" 90 6 ' 852

M ? M4 ' AL ' C " AFK4 ' M M ' DC ' M .
>26 ' 3 1

M ? @" ; M4 ? @' 4=A' " C L4 ' D ' M .
F62928-' (' " 62W ' 8< ' ' E

M ? KG , TX ' " AT , KA ' GL ? AGL ' F C G ' C " ' M ; -- '
I A , 1-4 I A 4 DF ' 8 . ' D" ' G ' M .
M((8' 4 ' " ' " ' ' I (8-28 ' 5 2-' > ' 66 ' ' ' (6 ' <2 ; (-0 8 | 2 '
; ' (8-' 82' C5G22 ' T ' " ' ' C2 5 2 ' , (8(N ' >' # 82'

M ? KG ; " 4 ' 4=A' A ? ELAT ' : L@@ " R " X ' DA ' : ' M .
" 65(5 ' 4 ' A ' ' F ' 8-(8' DF7 8' . '] , ' ' E' , 1 ' 8'
T1 ' 83' ' E' 2837 B' : 7 ' 8 ' 6 28 ' 4 ' ' ; ' , 83' F7 ' 83 '
C ' 857 " ' ' C (83(61' ' > ' 21' 4 ' , ' 4 ' ' >2 83' T1283'
: (' 8' ' R ' <2 ' 4 ' T7(9 ' 1' I

M ? KG ; " 44 ' R = ; ; =" C ' TALG " AT , L@ ' C =81- F L ' C = C L
DR ' T ' M .
; 37- (12' ' E

MALXLA ' ? , @' ; ? K=4' LC=; ' D ' ; ' L ' M .
?012 '-(' ' T 92 ' C2 ' 1 2928-' (' ' T ' 81 -' F 562

MA=L4F , ' , " @4' " ' L ' >7 M ' ; ; M ' D , ' " ' L ' M .'
L90 (6(3 ' &0 , " ' !' : #)# #

MA= LA ' AL ' 4" CKL ; ' A ? ; ; L4 ' C " ' M M ' M ; -- ' D4 ' A ' M .
E 062' b ' #, # ' (' ' 8< (0 "

MAKCC ? @M ' IA " @F=4 ' C M ' N ' A '
> 252<2852' ' E

MKF , L4@L ' ; ? K=4' C " A=L ' ? ; = =LA ' D ; ' M .
>'#'5 '] , ' ' I C S' 8< 0 (3 '#7 21' (' -72' #(#21' (' -72'
#2 (<

MKF : R ? AT , ' R X@ I A=M' ; " RAL@FL ' , L@AX ' C " ' C M '
M 45 ' DR ' ; , M .
F '8 (92-

MKF ; " KQ ' " G@L4 ' C " AX ' IA " @FL4 ' D" ' C ' I ' > .
A28 ' 8

MKMML@ ' AL ' I ALMLA=F : ' , ? CL4 ' C " ' M M ' DI ' , ' M .
G 23('=' #E

MKII ' AT ' , ? @' 4=A' C ? K@T4TK " AT ' L ; > , =@4T ? @' L ' GA " @T
G' F 4 = ' I A 4 ' DC ' G ' M .
" 9#-7 K' ; (<' ' F(62 <32' ; (<' M2 0 ' \ ' -7' L ' 6' (' '
?6 #7 ' 8-' ; ' 2852

0# 5 ,' ' + Y# ,' #' 0# * " 6 #' # ' ' , "6 ,0' 0# (+6 '
(

MK I I=L ; 0 ' R = ; ; = " C ' E " T ; L TT ' C " ' D R ' E ' M .
F7 ' -2 2<' F(8 .' 9 21

MK C A " T , ' ? 4 : " A ' , L@A= : ' > 7 A ' D$ ' , ' > .
4 J2<28 '] , ' ; ' E

MK@F " @ ' ; ? K=4 ' >7 M ' C " 9 81- L L ' D ; ' M .
T ' 5- (8 '

MK@@=@G ' >A ? I ' R = ; -6 " C ' " AF , =E " ; A ' >7 M ' ; ; M
D R ' " ' M .
472 9 ' 8 ' (7--

MK@4T " @ ' R X@M , " C ' A ? R ; " @M ' C " ' ; ; M ' > A 4 '
I F 4 ' D R ' A ' M .'
G --' >2 57 ' ' A 002

MK T , =L ' GL ? AGA ' C " ' # A 4 DL<-8 .' 6 M .
A7(<21 ' ' e# " 0 ' ' Q ,

MK TT ' AOC L4 , ' F , K@MLA ' F = L ' DA ' F ' M .
< '-23 ' ' =19 ' ' F7 ' 8<6

MX : L ' >A ? I ' , L@AX ' " @ ' " C ' M M ' , + M ' 4 ' ' A
L 92 1(8

>X : L ' >A ? I ' ? , @ ' F , " AGL4 ' " @ ' D ' F ' 7 ' M .
=88214 ' G2(32 ' >' 8- ' ' L # ' * #,

L " AM ; LX R = ; C ? T ' 4=A ' 4XM@LX ' E6 " A ? R ' D4 ' C ' M R .
T(#2<(

L " 4T ; " : L ' ; " M - ' DL ' L .
G 01(8 ' (78

L " T ? @ ' I ALM ' " ' DI ' " ' L .
" 5 ' <29 ' A(' 6

LMM=@GT ? @ ' " AT , KA ' 4T " @ ; LX ' C " ' C 45 ' I A " 4
D " ' 4 ' L .
@20 6 ' ' 4-'

LMGLR ? AT , ' >A ? I ' IA " @F=4 ' X4=MAO ' C " ' M F ;
DI ' X ' L .
> (0 ' 0 6 -

LMCK@M4 ? @ ' AL ' GL ? AGL ' C " ' > A , 1 ; 4 ' +G ' L .
" 328- 8 ' '] , ' E263 9 '] , ' E ' B 6 '] , ' ; '
@2-72 6 ' 8<1 ' ? ' 832 ' , (812 ' (' R 66 ' 9 ' -72 ' 4 628- ' d5

LMR " AM4 ' C " ? A ' R = ; ; 6 " 6 ' LGAAT ? @ ' DR ' L ' L .
" 9 (' >6 ' -21

LGGL ; =@G ' >A ? > ' , ' K ; =L4 ' >7 M ' D ' L .
E ' 79 ' 8 ' E ' 79 ' 8 ' ' E ' 79 ' 8 19 ' , 8< 19 ' 4 ' 81 -

L ; =? T ' 4=A ' F , " A ; L4 ' @ ? AT ? @ ' LMGLFKCEL ' : ? C G '
; ; M ' M F ; ' ' 3
" 1 ' '] , ' G L1-7(8/ ' ' ; o ' 3 ' P E ' G , 83 ' ' = "6 #' '
, 81 ' ' : ' 173 ' ' ' E ' ' : 7 ' B ' 4 ' ' _ ' ' C (< 8 ' 81
T ' -' 1 ' ; ' E ' G T 1 ' ' [

L ; =? T ' F , " A ; L4 ' R = ; ; = " C ' ; ; M ' DF ' R ' L .
G ' ' " 1 '

L ; =@GT ? @ ' LMR " AM ' ' DL ' E ' L .
>(J2 ' T ' 819 11 (8 '] 6

3 B ' G BN ' 3 < ' 3@ ' & ' N / ' 3 ' ' 3
F 2 ' ; ' E ' G G2(92- ' D= .

L ; ; =4 ' A ? ELAT ' GA ? I I AL ' DG ' L .
>22 ' 32 ' ' > ' F(856

L ; T ? @ ' >A ? I ' ? ; = LA ' C " ' D ? ' L .
L836 17 ' ; -2 ' - 2 ' D , = ' = .

L >>L@4TL=@ ' 4 ' ? TT ? ' >7 > ' D$ ' L .
" 02 ' - (8 '

L4CL=@ ' >A ? I ' L " @ ' > " K ; ' A ' L ' " ? , LC " A ' D ' > ' L .
I ' 852 ' = ' ' ' 5 , 6 b E ' 6 ' ' F(<2 ' @ ' J 62(8 '
=8-28<' 8- ' ' ; 2-- 21 ' <2 ' F ' 572- ' ' >' 62 928- ' ' # 2 25- ' ' 4- ' -21 '
G282 ' 6 ' 1 #' G ' T ' 662 ' ' " 5

; $! ' 3 $ ' ' ;
E(902 6621 ' C ' n 1 ' <2 ' M219 ' 2-1

LTAL ' >A ? I ' : " A ; ' , LAC " @@ ' C " ' >7 M ' DA ' L .
>2 1 ' ' = # 6 # ' ' C 7(8< ' @q1 ' :7(4 ' ' ' @ Bk9 ' '
? 9 ' ' : 7 ' q9 ' og ' E ' A~9 ' ' 4 ' <

L " @4 ' " AT , KA ' ? , @ ' C " ' M ; - ' ; ; M ' I A 4 ' I 4 "
D " ' ' L .
F 2-2 ' . 0 # " ' ' . # '] ,

L LALTT ' F ? C C " @MLA ' " ; ; L@ ' I ' A @ ' D " ' I ' L .
4 38 ' 6 ' 4 #' * " " " ' ; ' E

L LA=TT ' F , " A ; L4 C " ' > F 4 ' I G 4 ' I A " 4 ' DF ' a E A
" 6320 ' '] , E ' F729 1- ' ' F(81-266 ' - (8 ' <281 - '
M 1- 66 ' P- 08 ' G2(92- '] , E ' ; 37-' 5 6 ' '
] , ' d5

LR " AT ' >A ? I ' " CL4 ' F ? 44 " A ' C M ' I A e ' D ' F ' L .
T2623(8

LR=@G ' >A ? I ' " CL4 ' " ; IALM ' F E ' ; ; M ' I A 4 ' C =81 ; F L
D ' " ' L
" L83 82 ' 4 29281 ' 4 ' R 66 ' 9 ' 4-2 ' 9 ' L83 82 ' 4- 283-7 '
(' C ' -2 ' 61 ' R ' -- ' ' 92 '

I " =AE " =A ' AL ' " @MALR ' C " AT=@ ' C ") ' MM ' ; ; M
D " ' C ' I .
C ' - 8N ' ' ' 921

I " =AEA ? T , LA ' R = ; ; = " C ' , L@AX ' C " ' DR ' , ' I .
G 228 ' T7(9 ' 1 ' , K=

I " R L " T , EA ' AL ' R = ; K " C ' C " ' MM ' DR ' I .'
C ' 55 ' 0221 ' ' C ' 55 ' 0221 ' E((1 ' (

I " ; ; ? R ' T , ? C " 4 ' C " F " ; ; ' C " ' I 4 " ' DT ' C ' I .
F ' -72< ' 6 ' F((E ' -(8 ' ' F (11 ' ' 8<' F 5 W (7 ' ' F (J8 ' ' 8<'
L((82- ' L ' 1-2

I " , @E ? A ? , G , ' AT ' , ? @ ' ; ? , M ' D4 ' T7(9 ' 1 ' L 1 682 ' C ' .'
D I L C .
>' 6 ' 928- ' ' WE

I " A@L ; ; ' LLR=4 ' A=F , " AM ' C " ' # L -- ' D ; ' A ' I .
G 22 ' A26 3 (8 ' ' DC 1-2 ' O ' 562 ' Y2 1

N i ' " ' " ' N
F(8 83 ' ' E

>L@@L ; ; ' F , " A ; L4 ' " KGK4TK4 ' C " KML ' , " ' M ; --
DF " C I .
, 2 5 621 ' ' C ' 3 5 ' 4n ' 2 ' D ' E

N 3 ' 8 ' < 3 ' [' < ' N
, 2 82 ' ; ' E

> %% ' ' G bN ' > ' 5 ' # ' % ' >7 M ' DI ' " ' I .
=8-2 1-'-2 ' F(9 9 2 52

I >? K ; : L4 ' F ? @ 4T " @ FL ' ? FL ; X@ ' DF T I .
C (266

>! ' 7 ! $! ' 4 ? ' & B / @ ' ' N /
D " ' C ' I .
' 4 (8< 83 ' ' 4 2 83 ' j 6

N B ' G 3 3 ' $ ' ! ' " KGK4TL ' D " ' I .
M ' 9 ' ' & # 0 ' ' E ' ; ' 0 572

I =@M ; " X ' K , ' A=TF , =L ' D ' A ' I .
M2 ' 852

N ' I ' 5 ' Na / M ' N ' N
" 556 9 ' - 1 ' - (8

I =4=LA ' " ; LQ " @MLA
L8 ' 926

I =4 , LA ' ? 4 L> , ' A ' D ' A ' I .
I 86 ' 8<

>! ; K ' ' R = K = " C ' LMR " AM ' G " A , LT - ' C " ' DR ' L ' G ' I .
C ' 0621 ' ' >7#2 ' 5 ' & # ' E >7 66(2 '

I =4 : L ' ? , @ ' ; ; M ' D ' I .
G ' 8- ' K6 1121 ' 4 ' ' >' 9 ' 8 ' I ' 85 1

I =TF , ' 4 , =' ? 4 , K " ' G=A ; =@G ' K ; M ' DT ' G ' I .
" 8(6<' C ' --72J ' ; ' E ' ; ' 85 ' 1-2 ' (17 ' ' ' >(6 -2578 5 ' ; '
E ' E T7 83 ' L<J ' <

I =TYC " KA=FL : L ; ; X ' " CL4 ' M ; --' D ' I A .
4# ' 8 ' = "6 "# ' ; ' E ' 8<' = # 6 # ' ' EE F2 ' 8-21 '
' 8<' (-72 ' 4# ' 8 17 ' 6 -2 ' ' 0 (3 ' #7 21 ' ' C ' #' 41 ' 8- ' ' ; -2 ' g
- 2 ' ' T ' 816 ' - (8 ' ' > 5 ' 21n 2 ' @ (26 ' ' d5

> % ' ? , @ ' I " =T , >K ; ; ' F = L ' >7 M ' D ' I ' I .
, 8< ' F7 (8(6(3 ' =815 #- (81 ' 5

I ; LC=@G ' F , " A ; L4 ' " CL4 ' @=F ? ; ' DF ' ' @ ' I .
I ((-0 ' 66 ' 4 6 " + ' ; ' E

N 3 & " ' " 3B " 3 ' ' A ' N / ' " ' N '
2-2 8 ' ' 45 2852 ' D ' E

I ; LC=@G ' >A ? I ' ? , @ ' " CEA ? 4L ' C " ' M 42 ' I A 4

F(8< 5~(8 ' L625- 5 ' L625- 5 - ' L625- 5 - ' 4 ##6 ' ;2 <28 '
' ' ; 37- 83 ' % # E ' C(-(' L625- 5 ' T2623 K#7 ' \ ##,'
v# #" 0 ' E T ' 81 (92 1 ' ' [

I ; LC=@G ' >A ? I ' R " ; TLA ' ; X@R ? ? M ' " C ' >7 M ' ' DR ' ; ' I .
I 22<928#4 E 2 ' ' : 8 37-1 ' (' -72 ' G(6<28 ' F 562 ' : ' : 6 W '
L6 ' 8 ' ' ; #57 ' ; ' J ' ' C5GK7 ' ' " 62W ' 8<2 ' ' @ 66 5 ' - (8 ' '
425211 (8 ' ' K8 (8 ' ; 2 ' 3 2 ' 2 ' " 92 5 ' ' T72

#'5 ,' '+ Y#,' #' 0#' * " # 6 #' # ' ' , "6 ,0' 0#' (+6

=# ; L 8 8 4 A ' ; " Y " AK4 ' C " ' > : " ' D ; ' I .
W 6 -2? -2

I -6LTT ' ? , @' 4 C 6 ' ' M 45 ' I G 4 ' D ' 4 ' I .
>2- (6(3 ' ' "8<21 -2' ' E'1'6-' ' G '8 -2' ' C' 062' ' C2-' '
9 (#7 19' ' C2-'1(9 '- 19'F >82 9 '-(6 1 1' ' 4'8<' ' 2 81'
e# " ' ' d5

I ; ? R LA'4=A' R = ; ; =" C' 4 L@AX' I A 4 ' DR ' , ' I .
] $, ' E'G :'83' ((L$#' -' ' <= ' ; ' E' C' 9 9 '6 ' '
D ' E' C' 9 9 (-7' ' E'G A7 8 (52 (1' ' E' R '6 1'
' E' R 7 '62' ' E' R (6 ' D ' E' d5

NBB 3 ' 4 ? ' A3 ' < ' ' ' <M' N
>(J2 ' T '839 11 (--' & #6

NB 3 / ' K ' 6 ' ?GG' ; ; M ' > - G 4 ' I G 4 ' L Y 4
D , ' ? ' I .
4((- 7' D ' E

I ?AM' R " ; TL A' " AC=T " GL' K4T=FL' DR ' " ' ' I .
4(83' D ' 6, E' R - ', 3(

I ?AM' R = ; ; =" C' K4T=FL' C " ' DR ' ' I .
" 572 ' G '52' R ' G

NB 3 / ?3 TA 3 ' ; ! ' ' & 33 / ' ' N '
; '8< A23 1- '- (8

I ?ATL4FKL I ; " @@LAX' 4=A' " CL4' E" AT ' C I '
C =81- F L ' DI ' I .
I 26 ' = I6

I ?4TLA' , ?@' ? , @' R " T4?@' " C ' ; ; M ' D ' R ' I (.
, ' 1(8' E28 ' 9 8

I ?4TLA' 4=A' C=F , " L ; ' M F ; ' M 42 ' : KM ' > A 4
DC ' I .
M ' E(1 A2 9 (8<' ' :(66 2 ' A ' " ' (8

I ?T , LAG=; ; ' ? , @' A ' D ' A ' I # .
M ' J 83

I ?R ; LA' GL?AGL' , LLELAT' I Y 4 ' I ; 4 ' >7 M
D$ ' , ' I (.
" n ' 9 ' F(2628-2 ' ' F-28(#7(' ' C 5 (-(9 ' ' >6 '8 -(8

I ?R ; LA' AL ' T , ?C " 4 ' C " ' K ? ' K ; M ' DT ' I .
, -5721(8' I ' 85 1' ' E'G 47' -210 ' % < L ' 6 (' ' E

I ?R ; LA' R = ; L =" C' R " AKL ' C " ' 3 ' R ' I .
" 32 ' E(8 ' M2 ' ' F6 0' e ##Y' ' o ' 80' # -2 '
' E G' C ' 1 ' 4 0 " G' >(8- 2W ' 4 6 '# 1' 65 '8 ' d5

I ?Q ' ; =LKT F ? ; ' F , " A ; L4' " CL4 ' DF ' ' I .
4 '6 '32' F(#1

I ?Q ' AL ' " CL4' ' D ' ' I .
, 25 2 ' = ' T

I ?Q ' >A ? I ' T , ? C " 4' R = ; ; =" C ' C 45 T227 ' DT ' R ' I .
F' < 83# F#--(' 1# 88 83' C '57 82 ' 47 ---2' 4# 9 '3'
R2' 83' ' X' 8

I ?Q >=TT ' 4T' GL?AGL' ; " @L ' C L " 4 ' D4-' G ' ; ' I > .
T72(1(#7 ' b # #

IA" CL ' AL ' " CL4' L LA TT ' " C ' D ' L ' I .
T7211'6?8 '8 ' L# 1- 2' -(' -72

N a ' 4 3 ' 4 ' N '
E' 2 ' " 8-(82' ; ' ' E'1- 28 ; 2#'32' E' < ' > ' " ' E(5 6 8 '
E(872 ' A(3 ' ' F(02-' C '82-' C2 11(8 2-' > 1' <2' F7 ' '
'8821

IA" 4LA' " ; LQ " @MLA' F " C>EL ; ' ; ; M ' D " ' F ' I .
6 (5 2' (78

IA" YLA ' >A ? I ' " CL4' GL?AGL ' C " ' M F ; ' ; ; ? ' M - --
[' " ' N '
>28 '-21' ' E' ' > '2 25-' DB ' E' ' > '2821-2' DBB #' E' '
'2-(' ' E'G > (12 # 82' DBB E' ' > (852' DBB E'G
4 '- ' ' E'G T7219 (#7(' ' DBB E

N 3 & ' < & ' A ' N / ' N / / ' < ' N '
" 3 5 6- 2' DBB E' F' --62' DBB E' ' M ' ' 8< M ' g
' 9 83' ' I -' ' 8< I6(N ' I ' 9 83' ' E'G , ## ' , (12'
DBB E'G > 3' DBB E' ' 4722# ' E

IALLC " @ ' LMR " AM' " KGK4TK4 ' ; ; M ' M F L ' DL ' " ' I .
G(-71DB BB#' B -.' ' @(E 6 ' ' @(9 '81 ' > '62 9 ('DBBB# B .' ' 4 5 6 '
] , ' ' E'G 4 '5 12

IALLC " @ ' R = ; ; =" C ' GL?AGL ' E 45 ' " A F 4 ' DR ' G ' I .
F(5(' ' F(22' ' F(--(8' DBB E' ' T(0 '55(

IALL4L' ? , @' , L@AX ' C " ' D ' , ' I .
" #7 (< -2' ' " #(, (' ' " -29 1' ' " -728 ' ' F M292-2 ' ' Ln -F1' '
G '557 1' '8 1' C28 '8<2 ' ? #72 1' DBBB# B6.

N 3 & 3 ' G ' / @A 3@' ' ' / ' N '
? <8 '852' j) ' e6 ,' ' e6 #

IA?4T ' AL ' " @MALR ' , ? ; ; =@G4R?AT , ' C " ' D " ' , ' I .
C '3 5' 4n ' 2

N @ ' ' ! : K % ' 4B ' / ' 3A < A ' 3 ' N
426O(92' 1-' L4 6 (

N6 5 ' 4 ' 4 & B ' K ' K ' >
4-2#8 ' ' 42 3 1' T 5(# 1' F7' 6 '21

G " M ? R ' , " @4' IA=LMA=F , ' C " ' I 7 M ' I A 4 ' D , ' I ' G .
E < ' F7 ' 9262(8' ' F (5(< -2' ' C 3 '- (-' > " ' ' > -7(8' '
A2#- 621' . ' Q' : , +6 ' G 48' 21' ' #2 ' ' d5

G " =AM@LA ' " CL4 ' FE ' ; ; #' DT ' "
G ' < 82 ' 4-2#728' ' , 28 ' z=' ' ; ' 85 '1-2 ' , (12 (' '
; 2 221-2 ' A(02 -' M 62 ' L ' T6 (' ' C ' ' = ' O 228' >2 5 '
1 ' ' E' T '60(-' 1 ' ' E'G P ! Y ' , (12 (

/ L 3 ' >A ? I ' ? , " @@' , L@MA=: ' >7 M ' D ' , ' G .
M -57 '6 " K3 '32

K " CE=y ' >A ? I ' IAL6 A=F : ' R = ; ; =" C ' M 45 ' I A 4
N ' < ' "
>6 '8' '8 ' ' >6 '- 278 ' ' T ' #2J (91' ' T 29 '-(2

" & 3 ' [& 3 / ' / @T3 / ' 3 ' & ' N / ' N / ' [' / ' " '
T2' ' DBB E

G " CGLE ' " AT , KA ' C M ' I A G > ' M 45 ' ; ; M ' I A 4
D " ' G .
A21# '-(' 4 1-29 ' 4)# # , ' ! ' o#,

a " AF : L ' L C = ; L ' C =81-^ L ' DL ' "
L625- 5 - ' 4 ##6 ' ' ; 37- 83' % # ' ; (# ' . , # , E' G
A ' 6J ' 1' = " 4 ' o ' , ' DBB E' G T2623 '#7' (# '
. , # , ' G T262#7(82' (# '. , # , ' G T ' 9 J '

G " AM=@LA ' " ; " @' , L@MLA4?@' C " ' D " ' , ' G .
L3 #-' . # ' o# "

G " AM=@LA ' >A ? I ' , " AAX' @?AC " @' " C ' D , ' @ ' G .
L<J ' <1' (8 '-7 '8' ' E

" ' ! ' ' / $ + ' ' (; ' ' ' ; ' , ' "
L836 17' , 1-(' D === ' =Q ' Q . ' ' E 5 837 ' 9 ' 4-' M 2' (' BBB
E' G2(32' = ' == ' ' C' === ' G2(32' ' ' N ' > 882 '
R 9 ' 9' ' E

G " AM@LA ' LA@L4T ' " AT , KA ' C " ' DL ' @
" 23 8 ' ' F2#7 ' 6 ? 8 ' ' F(8-7' =1-7 9 1' (' M26#7 ' M(<(8 ' ' '
L ?57-72 9' ' C 528 '2' ? 9# ' ' DBB N ' >' -728(8 '
T72021' e ## #E' G d5

G " AM@LA ' ? ; @' 4T " A : =L ' I 4 " ' D ' 1] ' G .
C2-' 6 R (' 4 # ' .

G " AM@LA ' >LAFX ' M ; z-- ' ; ; M ' I 4 " ' D> ' G .
G 24 ' " -' ' "#26621' ' M '2<' 6 1' ' >72 < ' 1' ' >(6 38(- 1' '
> ' W -2621' ' 45(#' 1' ' d5

G " A@LTT ' A=F , " AM ' ; ; M ' DA ' G .
" 8-7(6(3 ' ' = 83 ' R ' 1C83-(8' ' ; 2(#' < ' ' >2 '5(5 ' T7(9 '1'
; (2 ' 4k # ' >' (6(' 4 '- 2 ' R ' 2 26<' L<J ' <G 00(8' ' [

G " A@LTT ' R = ; ; =" C ' C " ' M ? ; ' DR ' G .
L82 3 ' ' E'G , < (92-2 ' ' : 26 8 ' ; (<' ' >(6 -2578 5'
DBB E

a " A4T " @G ' >A ? I ' R " ; TLA ' C " ' M 45 ' DR ' "
I 172 21' ' > 15 5 6- 2

G " A4T=@' 4=A' R = ; ; =" C ' LMCK@M ' G F C G ' DR ' L ' G .
" 6O2 -' L+ J ' < @ '8B " ' ' " 6O2 -' @ '8B " ' ' E' ' E '7 26 '
G7 'B '6 ' E'G @62' DBB E'G 4(0 '-' DBB E'G T1 '8 " ' DBB
E'G 5-(" ' @ '8B " ' DBB E

G " A =L ' AL ' " ; IALM' LA@L4T ' C " ' MM ' D " ' L ' G .
M2 6' ' L157 ' -(6(3 ' ' , 2 21 ' ' E' ' =9 9 (-'6 -' ' 8g
1# '- (8' ' C '562' ' > 2<21- 8 '- (8

a " 4TLA ' C ?4L4 ' >7 M ' DC ' G .
A 9 '8 ' ' = # 6 #' ' E(3(9 61' ' E ' 5('8' ' F '8-29 ' '
F7 F ' ' G #1 21' ' , '1<2 ' ' d5

G " X ' >A ? I ' 3 (! ' N ' ! ; ' #7 M ' ' > ' :
, '812 '- 5 ' ; 2 ' 3 2

GLMML4 ' >A ? I ' > " TA=F : ' I A 4 DL < 8 . ' G ' "
C (#7(6(3 ' DBB E

GLMXL ' @=F , ? ; " 4 ' G ' D@ ' G ' $.
; 37-7(12' DBB E

" 3 T 3 ' ; ! ' ' 4 A ' A ' N / ' ' "
G2(6(3 ' , --(8' ' 921' C 57 1(8' 4 ' A(<2 5 ' 45(-g
6 '8<' e# " 0 ' ' e# " ' ' E' 21 1' DBB E

" 3 A 3 ' I ' > ' : " A ; ' IA=LMA=F , ' >7 M ' D : ' G .
>2 1 ' ' = " 6 "#' G Y28< " 21-' ' Y(('1-2

FL ; ' > , = ; =>' ; XTTL ; T ? @ ' C " ' D> ' ; ' G ' .
: 7 'B' 1' DBB E

" ! # # ' ! ; ' 8 K ' (! 5 ! ; ' ' 8 ' (' :
T 2 ' = # 6 #

G=EE?@4 'C" ?E' " ; I E L M' 4T' , =; ; ' D" ' 4T' , 'G .
E' (-12 'E' (-126 '8<' ;2J '8 '

" B /' 4 /' 3 & 3 3' A 'C &3/' _[k[' "
A(9 '8' F'-7(6 5' F7 57' L # '* #,

G=E4?@' R " ; F?T' M 45 ' I G 4' DR 'G' .
" 5' ' e# " 'G "632 ' ' e# " ' ' F'#2' F(6(8 ' e# " 'G
@'-'6' e# " 'G T '81 ''6' e# "

" NN3 ' / ' B 3 'N / ' '"
E'327(-' ' E'6'852' ('T '<2' ' T'1 '- (8

G=; ELAT' GA? L' : "A ; ' ; ; M' DG' : 'G .
@ '3' ''

G=; L4' >A? I ' , LA#LAT' " ; ; L@' C " ' ; ; M' D , ' " 'G .
F7 8' '= "6 "#'= # 6 #' '<<' o# "

G=; L4' ; =?@L ; ' C " ' D; 'Gs .
F7 8' '= #"6 "# ' E

G=; L4' >LTLA' C " ' ; ; > ' M ; --' D>' G .
"5528-' ' "6#7'02-' ' " <8' ' G 22 ' ; '83 '32' =8<(L< (#2' 8'
; '83 '321' ' > #6(6?3 ' 7 ' E' ć '8< q - 5R1' ?8 -72' &a' 62--2 1'
('-72' L836 17' '6#7'02-

" ' ; ! ' ' M" =M' : M E ' ; ; M ' M 45 ' I A " 4 ' I A 4
A ' "!
6 26 (9 2-2 ' ' C 5 (862-2 ' ' T26245(#2' ' E

G=; ; L4>=L' "@MALR' ; ?F : 4 "AT' CM ' L A 4 DL 8 .
D" ' ; ' G .
M 3|1-' 2' ? 3'81' & 0 X" ' ' E

G=; C"@' M"@=L ; ' F?=T' DM ' F ' G .
K8 2 1 - 21' L # '* #,

G=; A"X' T , ? C"4 ' C " ' +T' G .
, 28<2 1(8' "62W'8<2' ' E

G=@@L ; ; ' ; "KAL@FL' C >' D; G .
E 27(8' ; 'J1

G=@4EKAG' AL@LM=FT' R=A ; =" C 'C " ' ; ; M' DA' R 'G .
4-2' 917 #' ; 821' ' T(88'32

G=@4EKAG' AL ' F , A=4T="@' M" =M' ; ; M' | ' T' G .
: '00'6' 7' ' E

" ? 'G BN' 4 ? ' ' "!'
"632 ' '] ,

G ; "MML@' GL?AGL' DG' G .
C' -7'#1' 82 ' <

G ; "=4 , LA' "CL4' R , =TEAL"M' ; E' C " ' M 42 ' I A 4
D ' R ' ; G .
; 2328< 2' " ' C' ' ; (3 - s' ' @'# ' ?7 ' ' T'062' C'-72' '
9 '- 5'6

G ; L=F , L@' F? ; ?@L ; ' F?K@T' " ; ELAT' LMR "AM' R=; IALM'
: F ? ' F C M ' M 4 ?' DG .
"0 11 8 ' '] ,

" B 3 ' B A '& ' ' ' "
; ' ' <

G ; ? LA' TLAA?T' AL" L ; LX' C " ' DT' A ' G .
3~' ' E

G?MIA"X' , KG , ' C " ' D , ' G .
M '6' 8<' M '66 83

G?MIALX' LA@L4T' , ' DL ' , ' G .
F'8'<' ' ." 6 6 #

G?M ; LX' " ; IALM' ML@=4' C " ' D" ' M ' G .
T'5 - 1' ' ! E

"g3[3'& 4 3 ['A3' &'[' ' "
" '0 ' ' = # 6 #' ' E ' F'K#7'-2' T7(1'8<' '8<' $ 2'
@ 37-1'

G?; M=L' AT' , ?@' 4 A' GL?AGL' M' T"KEC"@' : F C G '
I A 4' DG' T' G .
E 'BB' ' F(8-' <2

G?; M4C=M' C" ?A GL@LA" ;' 4=A' IALMLA=F :' ? , @'
; F 4 =' DI ' 'G .
>2 1 ' '] , '@c^ @CCc' ' E' ' 42 1-'8' ' E' ' T9 ' 6

G?; ; "@FY' =4A" ; ' C " ' M ; --' D=' G .
>2' 6' T72

G?CCL' " ; =FL' E' D; '< ' G(9 9 2.' D" ' > ' G .
F7 6< 28H1' G' 921

G??ML' GL?AGL' EA?R@' DG' E' G .
? 1-2' ' E' U

G??MA=F , ' LMR=@' 4TL> , L@' C " ' I A 4' DI ' 4' G .
, '#6(< 6' ' C B(1-(9 <'

G?AM?@' AL ' " ; LQ"@MLA' C " ' D" ' G(.
L '1- 1' ' I6'5 1' ' I '85 ' 420'1- '8' ' , (9 '88' C2657 (' '
=66 9 8'-' ' : 8 ##2 <(K #5 ' ' C288(# -21' ' K8 -' '# 49' '
'6<21' '8' <2' ' d5

G?A4T' 4=A' L ; M?@' : F E' DL ' G(.
L3 #-' ! #' ' E

G?4F , ' F , A=4T="@' F"A ; ' "KGK4T' C 45' DF' " ' G .
M289 ' ' e# " 0 ' ' * , ,' ' E V

G?44L' LMCK@M' ; ; M' DL ' G .
E263 9 ' = # 6 #' M289 ' ' = # 6 #' M -57' ; -2 '- 2'
I 86'8<' = # 6 #' I629 17' F -2 '- 2' @(J' ' = # 6 #'G
*' # # ' = # 6 #' 'om , G' [' E (3 '#7 ' E'66' <2'
>6'8 ' 2 12' F7'81(81' <2' GN1-2' ' F -5 19' L11' ' @(26'
> (12' ' 4- 62' [G '8< 0 (3 '#7 21' (' L836 17' '8< (2 38'
#(2-1' '8< J -2 1

G?KMX' >A? I ' K '6' C " ' M F ; ' ; ; M' D , ' G(.
A$ 9 ' ' ; ' J

G?KG , ' " ; IALM' EA" M ; LX' C " ' >7 M' D" ' E' G(.
4J '0 '8' ; 2'3 2' T 2 ' R21-#7'6 ' ' T 2'- ' (

G?R' AL ' "CL4' C " ' M ; --' D ' b aH
, ('52' ' E

G?R' R = ; ; = " C ' C " ' >7 M' DR ' G(.
=81 '852' 4 #

GA"FL' ? , @' , =; T?@' C " ' I A 4' [' 4 ' " '
' G2(9 2- ' D .

GA" , " C ' >' " @ML#4?@' D>' " ' G .
"66(-928-1

GA" , " C ' R "-TLA' "AC4TA?@G' DR ' " ' G .
E'83 (' C'6' ' 4-'-21' j !# # # ' C'6' ' 4-'-21'
* #,#' 4 ' 9

GA"@T' AA?I ' "AT , KA' "CL4' C " ' D" ' T' G .
; (8 1' Q66 ; ' Q6 ' '8<' Q

GA"@T' F? ; ?@L ; ' F , "A ; L4' DF' G .
=8< ' ' (, 6 #

: ' % ' AA? ' R= ; ; = " C' ; " R4?@' C " ' DR ' ; ' G .
F'8'<' ' * , ,' I' F' - 2 ' 4 ' G2(321' L - 2882' M(5721-2 '
; (<' @2J' E 81J 5 ' ?8-' ('] ?82025' 4-' > 2 2 ' 8<
C n 26(8' 4- '-7F(# ' '8< C(8-' A('6' ; (<' R 61(8' 4 '
M '8 26' [

GA"X' >A? I ' GL?AGL' EKFA"@"@' C " ' MM ' M ; --
DG' E' G *
E 062' b ' #, # M' #$ 6 'e , ' '8<'] "O#' (,

GA"X' e? , ' C= ; ; LA' D ' C' G .
; 22#7' (78' T' '12' ' 921' R 6 2' 4 'M' <

GALL@' AA?I ' ?4L> , ' ALX@? ; M4' C " ' M 45 ' I ; 4 '
I A 4' DT E ' "
>6' 8-1' &0 , "

GALL@ , = ; ; ' 4=A' " ; IALM' GL?AGL' C " ' L A 4' D" ' G' G .
E'66 1- 51' G (15(#2' '8<' G (1-'-' , < (9257'8 51

" 33 A"3' # '43 A@'8 ; ' C " ' M ; --' D" ' , ' ' G .
"3 ' '8' ; ' ' 1' ' NE' F281(' . # ' F(9 - ' ' F(81 6'
o 'G M5-'-(

: ' ('N 3A3 T' N ' G .
E2'5(81 26<' L' 6 (

GA G?' ?4L> , ' 3' ' b aH
F9 17'8

GALG?AX' >A?I ' ? , @' R " ; TLA' M 42 ' I A 4' DT' R ' G .
"81- '7' ' &0 , ' e# " 0 ' '8<' @2J' 4(-7' R'621' @2J'
Y2'6'8<' O 22816'8<' 4(-7' " 1- '6 ' ' T'19'8 ' ' 5-(' '
'8<' R21-2 8' " 1- '6 ' ' e# " ' ,# ,E

" 3 < " ' I % ! ' B 3 ' [' ' ' "
? 752 1

GA=LA4?@' GL?AGL' " , A" , " C ' F = L ' #7 M ' M ; --
" ' ' " ,
E283'6' P , 8<(1-V8]' =#<? " '8' ; '83 '321' C' '-7 '
> 1'5' ' ; '83 '321' > ' -' 4 8<7' '8<' ; '78<' ' d5

" 3 /B ' & ["3 ' [&{/' &B 3NN' ' '
& " ' B' [' &' " '
C'8(2 21' C 6 -'

GA=L L' AL ' " ; LQ"@MLA' ' C ")' E M' D" ' ' G' .
"90 (12' 4-' E -62 ' E 17(#' ' E' F'-257 19 ' @2J'
2 1'629' F7 57P > 2'57 83' > 9 - 2' C2-7(< 1-' F7< 57' '
42#- '3 8-' T72' #J2<N80(3' L 9 '8 26' T -721' o# " E'
fC2

GA6 I6TT , ' IA"@F=4' ; ; LRL ; ; X@' C " ' >7 M ' Ia "
N "
L3 #-' . # G' "# 1' "11 -' F'8(# 1' : ' 8' P ; W('
?026 1 ' ' >7' '(7' A(12--' ' 45' '0 ' T72021' *" E' d2

GA=II=T , 4 ' C " ?A' "AT , MA' GL?AGL' IALMLA=F : ' D" ' G .
F7 6< 28 ' F(-1' F 92' F 9 8(6(3 ' M2#(-'- (8' I 832'
> 8-1' ' =<28- V5'- (8' >(6 52' > 1(8' [

" & 4B ı '-?EM' Da .
C(5 '; ' G' R'-57'; ' E

" B/ ' ' 7 ' " ;LQ"@MLA' E";;?F, ' ;; M ' M -.
' D" 'E G .
4- 6 ' L' 6 ('D' '

GA?44' >A?>' F, "AGL4' " C '>7 M ' ;- M ' DF' " '
G6<1

OAGLELE', LAELAT' ">>?;A' I i " ' D, ' " 'G .
@ -8 19'- 51' D'8 E

GE?I> M#' R=;;=" C' ?, @' C " ' +R ' 'G .
F26-' = # 6 #' \#,0

"?3 43 ' # '%' 4 3/' 3< /' "B 4 G' & '
& A 'G A 'N /' D" ' F' G?
' ' 6 - ?6(3 ';' ! ES' C'5 2 26' DJ' E' A ' E'
' A2#- 621'], ' E' 47 - ';' E' 4J(<816-

GK;;"@M' GL?AGL' ;{ L;;' C " ' C M ' # A F > DL< 8 .
DG' ;' G .
E6?(<' & 0 "

"? / 4& A' # ' ' ";IALM' ?@' D" ' 'G .
C(121' ('F;? 282';']E

4 A B T' 3? B ' # '%' "3b "3' ' " ' 4
"99 8 - (8';' EG' ? <8'852'], ' '(, 6

, "M;LX' "AT, KA' TR=@=@G';; M' D" '- ', .
A' 6J' 1'% ,

4 AB<' (! ! $' K '6' C " ' C 1M(2' DR '4 ' 4
E'57' :' >' L ' ,' <8' 457 02 -

, ";M"@L' ?, @' 4F?TT' C " ' C M ';; M ' I A 4' D '4', .
A21# '-('4 1-29 '&0 , "

, ";L' AL 'LMR "AM' L LALTT' M M' DL' L', .
F6' 2' '921' I 229'8' L 2 2R' L<J' <

4 3' "3B "3' 3 3 @' MAI' A / ' " '3' 4
4#25- (726 (3 '#7

, ";L4' >A?I' ?, @' RL4;LX' C " ' D ' R ', .
A(0 8', ((<'; ' E

, ";', "AAX' ALG=@";M', ?;"@M' C " ' D, 'A', .
F2 51'% " ' \#, # '., ' >6'-2'; ' E

, ";>, @' ;?K=4' M' 21';' D;', .
"8 (' I 6 , 2 ' ' G2(2 '(' "8 (' ' G2(N '>6'8-'328N-

, "CLAT?@' >, =;=>' G=;ELAT' D>' G', .
; 82' L83 ' 83' ' ! .' ((<' L83 ' 83';' E

, "C=;T?@' >A?I' M" =M' "CL4' C M)' I A 4 DL<=8 .
DM , .
>'-7(6(3';a' E

, "C=;T?@' 4=A' LMR "AM' R";TLA GFE' :F $
DL' R' , .
@'- (8'6>20-';( )#, ,'; ' E

4 $! % *' $!' ' ;!' '! K 'A L4LX' GFE
DA' ', .
"<9 '6-' "<9 8 1- '- (8' ,0

4 ' 3 '< & ' A 'A A' < '4
F7'692 1' T7(9 '1' D J' E

, "@@"X' M" =M' D-.', .
"92 5''], G' 4#' 8'], ' ; ' E' d5' "92 5'8'
R' ' (' 8<2#28<2852' j) ' b # ,'' I 2857' A2 (6 - (8g
' ' R' 1' j) ' b # ,'E @'#(62(8 5' F'9#' 381' j)
b # ,'G' d5' > '-2 '8< > ' '] ' ' E 3'8<'32'
d5' @ 62' E'--62' (' -72' 46 1' E'--62'' (' ' d(A'62 3
@261(8' '8<' (-72 '8' '6' '8<' 6 -2 ' '0 (3 '#7 21

, "ACLA' 4=M@LX' IALMLA=F' C " ' M 42 ' LA 4 ' I & 4
D4' I ', .
>7((8 <2'' ' >(6 B(' ' >-2 (0 '8#7 '

, "A@"F:' >A?I' "M?;>, ' >7 M' D" ' 4
C' 5 (8' ' C 66288 9' ' C(8-'8 19' ' ? 328' 4V0#66 1' '
T72(<(2' ('C(#1 21- '' *##

, "AA=4' T, ?C "4' C M ' I A F >' DT', .
A21# '-('4 1-29 '& 0 " '; ' E

, "A 264?@' LA@L4T' C " ' DL', .
T2 2852'; ' E

, "AA=4?@' IALMLA=F' ;; M' N' 4
A 1 8' (78

, "AA=4?@' A?ELAT' R=;;=" C' IALMLA=F:' DA' R' I', .
A('64(52- ' T72' ' (68

, "AT', LELA' ;L?@=M"4';; M' 4 ' 4
" 5-(81' '8<' " 5-(822 1' ' L1-'-2' '8<', (12' "328-' ' '6 'g
-(8' '8< '6 2 1

, "AT' ?, @', L@AX' "AT, KA' C " ' D ', ' " ', .
2J1' e ##Y' ; ' ' >'621-82'] , ' ; ' E' G
, 2 (< '81' ' >7' 1221' 4 ' , 2 (<' (12#7 1' ' d5

, "AT?G' >A?I' C"AFK4' C " ' M 45 ' I ; 4' DC' 4 J'
" 9(20' ' I6'3266'-' ' I('9 8 2 ' ' =8 1(' ' A'< (6' ' '
A7 B(#(<' ' A(- 2 ' ' d5

, "AT?G' >, =;=>' ?4L>, ' C " ' D>' ' , .
LW' 9 8'- (81';' E

4 '7 6' ' ;%' $;' '=<' K
LW57'832

, "4, "GL@' K4TK4' >7 M' [' 4
I 2<2 5' " 3 1- 1' =' '8<' =' ('4' W(8 'P I 2<2 5' R 66 '9' =' '
('> 11 '' ' ;(1' =' '8<' =' ('E' q '' ,25 2' ' ,2 -B02 3'
, (# ' T' > -- '992' ' *#

, "4;KF:' IALMLA=F:' R=;;=" C' C " ' N' <' 4
E-7 7 '' ; ' E' F B5 1' ' C 1 '

, "44"-;' "AT, KA' C " ' D" ' 4
" 1- ' , 83' '], ' ; ' E' L (#2'], ' D J
E

4 4' 3 '3G< '& 'AA' 3' 4
4'5 52

, "KF:' >A?I' ";ELAT' M T7' >7 M' M 1' D" ', .
F7 57', 1-(';' E' ' >63 9'32' A26 51

, " LAI=L;>' >A?I' IA"@F=4' ?, @' C " ';; M' I 4 "
DI' ', .
E -' 8'] # o 0 ' ' o E' 4#' 8'], ' ' . # E'
A(9'8" 9 ' ' L 9 82' 4- 22-' ' R'-6 83' 4- 22-' ' d5' 4~ 21' '
T7 62' P E('< 52' ' ' d5

, "R:=@4' F, "A;L4' F"L4"A' C " ' C = L L' DF' F', .
M 8'9(

4 Q% ' 4 '6' ' 6 $ I' 4 ' ' 4 M
"< | - 128 N8-' o$' E

, "XL4' B ', [@T;L¤' " C '>7 # ' DF', '4
C'- 6<' ' F(#8 211' ('T 15'8 ' ' @ 2 27' ' > 3'-(' ' 4 (B" ' '
4 66 ' T 52' ('G(<' 15(8-' ! EE' [' 6 1' == '
\ a$ q ' '8< 0 (3 '#7 21' ('(-72 '#(#21

, L"M;"C' "CL4' RXF;6IIL' C " ' D ' R ' 4
" 1- ' , 83' '], ' G2 9'8 '], ' ' ' EE'
E19' 5 ;' ' F'# ' ' M (128' 'G' ' I 2<2 5' ' === ' ?' > 11 " ' '
T' ' 2' F(8-' T F-157 2', 2 8 57' (8' R 8<-7(1-' ; <g
J 3' ' d5

, L"M;"C' R" ;TLA' GL?AGL' C " ' DR ' G', .
, 2 (<'1

, L"T, ' 4=A' T, ?C "4' ;=TT;L' : F' E ' M 45' DT' ;', .
"8-729 1' ' "#(66(8 1' (' >2 3' ' " 57 92<21' ' , 2 (' ('
"62W'8< ' ' >'## 1' (' "62W'8< ' ' >(19' ' d5

, L"R#?M' LMR "AM' C " ' 3' 4
" 5' ' e# " 0 ' % ' ' 8< + " 0 E' ; 6 9'8 ' ('
@ '1' ' A J28B? ' ' 4'7' ' ' E' E T'83'8 ' ' ;' 2' *##'

, LF;4T";; 4C=T, 'E' DE', 4 .
X'57- 83

, LMGL4' :=;;=@GR?ET, ' C =81- F L ' C =81- L L' D: ', .
; 37-8 83' F(8< 5-(

4pA p@' '!:K%' 3 ' [B4 ' i 4 3 ' B / ' A A
D F , .
=9 9'5 6'-2' F(852#- (8' ' T '81 01-'8- '- (8'

, L, @LA' ?TT?' >7 M ' I F 4' D$ ', U .
"< 6-2 '- (8' I((<' > 212 '- (8' ' '91' '8< 266 21'

, L;CLAT' >A?I' IALMLA=F:' A?ELAT' >7 M ' M =83'
DI' A' , .
L' -7' I 3 2' ('-72' ' G2(<21' ' E

, L;C [T, ' R=;;=" C' T?M' C M ';; M' DR ' T', .
, (9(2(#'-7

, L@MLA4?@' F?;' GL?AGL' IA"@F=4' A?ELAT' DG' I' A', .
R'

4 ';' '>^TLA' G K
, (-5 6- 2'. # '(#

4 ';' '%K $;' >' %' >' K
, ((2' A 57' <' ;'- 92

, L@:LA' ?TT?' >7 M' D$' 4'
E 8(5 6'-' =81- 928-' ' ;281' C 5 (15(#2

, L@;LX' R=;;=" C' LE@L4T';; M' M F ;' DR ' L', .
F((#2 ' '921' I28 9(|

, L@@L;;' 4=A' ALG=@";M' M 4 ? ' F ?' ' 4
X2(928' ('-72' G ' <

0#' 5 ,' ' + Y# ,' # 0#' * " 6 #' # ' ' , "6 ,0' 0#' (+6

, L@@L44X' , "AA=LT ; ' ; A'F 4 = ' ; E F > =
D , ' ; ' , .
G%9'25+].6(3 ' ' =8 '85 ' =8-21- 8 '6 ?01- 5- (8' ' C2< 5'6
L< 5'- (8 ' D J ' ' J8'5-(' (1 2 '
>7' 86'F(6(' # " 'G A21# '-(' 4 1-29 ' & 0 " ' '
' E ' T 02 5 6(1 1 ' d5

, L@A=F=' ?L "-64' C "G@K4' I A6" * A=o , ' >7 M ' I A 4
D$ ' 4 .
F'65 6'- 83'C'57 821' 'G2(9 2- 'D= '== ' '8<' 66 .' ' >2 1#2#- J '
> (25- (8

, L@ -X ' " [G [4T=@L ' C " ' I ; L ' F ' 4 M
F7 8'*'

, L@AX' B ? & ' < ' 4 6
M (F8 -3' '8<' ; 2' 4' 83' 4J 9 9 83' R'-2 ' >(6(

, L@AX' , ?@ ' R K 6 " C ' R =AT ' C " ' DR ' R ' , .
M' i ' 2 2 1(8' ' E

, L@4?@ ' AL ' 4 ' # ' % ' K ; 6 ' $ ' ' K ' 4 ' M
E 062 ' L836 17 ' o#) ,# ')# ,

, L>R ?AT , ' R " ; TLA ' < ' 4
I ((6

43 A& 'I ' > ' (! ! $ ' # # % ' A / ' I A 4 ' DR ' " ' , 1 .
T 8 5'-'

, LA LX ' " AT , KA ' ' 4
G(8#<' % -0('71 ' F7' 621

, L44L ; 4 ' ? , @' , L@AX ' C " ' D ' , ' , .
I 1-' % G6(11' % G -2802 3 ' T #(3 '#7 '] ,

, LR=@4 ' (! ! $ ' " ; ELAT' 4 " CKL ; ' C " ' DR ' " ' 4 ' E .
L5(8(8 51

, =" TT ' F , " A ; L4 ' DF ' , .
>(1-2

, =EEEAT ' R " ; TLA ' C = F L ' I = F ' I F 4 ' < ' 4 %
"55 986'-(

, =F : 4 ' A ? ELAT' MALR ' C " ' DA ' M ' , .
42825'' ' E ' ' 4-(51

, =GG=@4?@ ' T , ? C " 4 ' R L@TR ? AT , ' " C ' ; ; M ' +T ' R ' , .
>7 K #1 ' R 28<266

, = ; ; ' LA@L4T ' >AL4F ? T ' C =81- F L ' DL ' > ' , .
" n 2< 5- ' 4 ,#

, = ; ; ' GL ? AGL ' IA " @F=4 ' C " ' DG ' I ' , .
=815 #- (8 ' e ##Y' ' E ' @ 9 19 '- 51

, = ; ; ' ; ? @ " AM ' LA4 : =@L ' C A F 4 ' ; A F > I A 4
D ; ' L ' , .
'15T(6' ' 4 1-29 ' &0 , "

, = ; ; =LA ' " ; IALM' >LTLA ' C M ' C > ' D" ' > ' , .
E'1 -(6'8<'] , ' ' E'G E257 '8 '6'8< ' E F8#2
F(6(8 '] , ' ' E'G @'-'6 ' E ' ? '832 I 22 4-8-2 '
] , ' ' E ' ' A7(<21 ' '] , ' ' E ' 4(-7 " 5 ' '
] , ' ' E'G 4J'B 6'8< ' E'G T '81 ''6'] , '
' E

, =@M ' R , LL ; T ? @ ' C M ' I A F 4 ' DR ' , .
>28<621 <2 42 21

, =@M4 ' R = ; ; = " C ' " ; IALM ' DR ' " ' , .
?82 <'' F(9 9 8 -

, =@T ? @ ' " AT , KA ' , ?A4 ; LX ' D" ' , ' ,
>7(-(3 '#7 ' &

, => : =@4 ' " ; IALM ' " CL4 ' I 4 " ' D" ' ' , .
, ' 9(8 9' ' E'G , ' # ' E'G ; -2 ' E'G ; 2'
' E ' # '8((-2 ' E'G > -57 ' C 15'6

, =AT , ' >A ? I ' IA=LMA=F , ' >7 M ' DI ' , .
F7 8' '] , ' ' E

, ?E4?@ ' >A ? I ' LA@L4T ' R = ; ; = " C ' C " ' M 42 ' I A 4 '
I A " 4 ' DL ' R ' , .
I(2 H1' 42 21' ' 4#72 5'6 , ' 9(8 51' ' T 3(8(92-

, ?E4?@ ' A ? ELAT' ; ?F : , " AT ' DA ' ; ' , .
F2 '9 51' 4 # #) ' ' = # ' 5 ' '8< &# , ' * '
%" ' ' 6 Y , 0

, ?MG : =@ ' T , ? C " 4 ' ; ; M ' M ; -- ' M F ; ' DT ' , .
"6' 5' " -- 6 ' ' (<'821' ' E ' @' 121' o ' e# # E '
?<('52 ' A' 288 ' ' D! ' ' T72(<(5 ' '8<'61' D ' #' .

, ?MG : =@4?@ ' R = ; ; = " C ' A=F , " AM ' L " T ? @ ' >7 M '
I A 4 DL< 8 . ' I F 4 ' DR ' A ' L ' , .
F(<-2 % M 8'9 -2 ' LW#6(1 21' ' G 8' F(--(8' ' G 8#(J<2 ' %
@ - (36 52 8

, KM4?@ ' T , ? C " 4 ' F " ; ; " @ ' DI ' F ' , .
\ G288'

, ?II ' "F?EK4' , L@A=FK4' "@T ' =" M ' M42 ' CMg
D ' 4 7 % 4 '
=1(92 19 ' 4-2 2(1(92 19

4 : ' % K ' 7! ' : ' : ' $ ' A ' : '
"232'8' F 6B'-(8' "62W'8< ' % " -(57' % " ' C 8(G
L#721 1 , ' K5' 9 '11 1 ' , -- -21 ' >2 3'--- 9' % 4' <1 '
4 ' % Q'8-7 1 ' d5

4 : : ' I ' > ' K I ' $ ' K ' (' K
"-V'76 L<214 ' ' C21+ (-'9 ' ' T7'#1'5 4

4B & 4 ' ; ! ' ' T , ? C " 4' , K@GLAI ? AM ' : GC G ' : F = L '
M 42 ' DT , , .
"1 ' ' e# " 0 ' ' % 0 " G E'6 57 1-'8G'8321' '
, 9 '6' ' ' , 8< ' : 17 ' =8< 1 ' :'179 ' :7 02 ' >'11 '
T 02- ' ' . ' d5

, ? ; ; " @M ' " AT , KA ' R = ; K " C ' D " R , .
" 1- ' ' , 83' '] , ' ' EG G2 9'8 '] , ' '
E '8< + " 0 ' ' F7' 629'382 ' ,28 ' = ' 29#2 ('
*## ' , '010 3' , (728B(K2 8' C'38 ' F' -2' >'1-(8'
; 2--2 1 ' d5

, ? ; ; " @M ' T , ? C " 4' LA4 : =@L ' : F ' M F ; ' ; ; M ' DT ' L ' , .
E28-7'9 ' 2 29 ' G28-6 ' , '66 ' R 66 '9' y ' T 2'- 21 '
'5' 1

, ? ; ; " @M ' R = ; ; = " C ' "F?E ' " C ' M M ' ; ; -* ' M 4a ' I 7 M
D R ' ' , .
C 12 91' (' 45 2852

, ? ; ; =@G4 , L " M ' ? , @' [' 4
C 15' , '661

K $; ' 4 3 / ' [B4 ' & ' ' [' 4
F7 8' ' (0 #,#' . ' * 6 6 #EG F(81-'062' 0

, ? ; CL4 ' LMR " AM ' C ?AL ; ; ' DL ' C ' , .
?# 9 ' >7' 9 '5(#(2 ' ' >6-2 9 '5

, ? ; A ? XM ' 4=A ' F , " A ; L4 ' +F ' , .
, '<28 ' 4 ' I ' F ' ; 23 (1' 47(-' I ' 85 1' (0' 4-293 ' R 66 '9

, ? ?>LA ' IA " @ : ; =@' , L@AX ' DI ' , ' , '.
, '85(5 ' R 8 26<' 45(--' T '9 9 '8 ' , '66

, ? ?>LA ' RX@@ " AM ' C " ' DR ' , (.
C ' 2-' 4-'- 1- 51' 4-(5 ' LW57'832

6? > : =@4 ? @ ' 4 ' M ' D4 M ' , .
M <28<

4 ' ' ' [; IK ' : ' " C C257 L ' O ' G ' , .
E(62 ' E(~2 9 ' 3' I(3 83 ' I(8< 83 ' C2-'6 R('
5 6, G' 45 2J ' T((6' d5

, ?4L ' F , " A ; L4 ' M 45 ' I AG 4 ' DF ' E ' .
E 82 ' 4' ' J '

, ?KG , T?@ ' T , L ' A=G , T' , ?@ ' ; ?AM ' D , .
, ((<' T7(9 '1

, ?KG , T?@ ' " ' L ' D" ' L ' , .
4#' 8'] , ' ' . ' F'0 2 '' F' 9 '57(' FV8('1' <26
F'1-K6(' ' F'1-26 ' ' L #(66' L1#' -2 (' O N1'<'' ' C '-72 1'
42 '8(' M(9 83 21' I '85 15(

, ?K4C " @ ' ; " KAL@FL ' D ; ' , (.
K6 1- '- (8' ' E

, ?KT4C " ' >A ? I ' C ' T , ' DC ' T ' , .
426 8 1

, ?RKC 4F , =@M ; LA ' 4=A ' " ' F = E ' D" ' E 4 .
&# , e# " 0 ' ' * , ' T272 '8 ' K8'' (-72 ' >2 1 '8'
-(#(3 '#7 5'6 ' - <21

, ? LX ' AL ' , ?A" FL ' F " ATLA ' " C ' M M ' D , ' F ' , .
F(6(11'6 F' 2 8 ' '5(01' F' 2 8 ' ; V ' F' 2 --' C'99(-7'
G' 2' R '8<(--2' F' 2

, ?R " AT , ' ?4ELAT' ? , @' A " MF ; = I I L ' C " ' DO ' ' A ' , .
L836'8<' " 0 '& 6 ' '5 6, #,' D\ ' = ' === '
=Q .' ' = 26'8<' e# " 0 ' @(J ' ' e# " 0 ' ' * ' ' '
4J2<28 ' e# " 0 ' ' * , ' ' F(#287'328 ' ?W (<' ' d5

, ?RL ' >A ? I ' , L@AX ' C " A=?@ ' " C ' ; ; # ' DE ' C ' , .
= (8' '8< 4-226

, ?RL ' ? , @' " ' ; L@ ' E 45' D ' " ' E .
L836'8<' e# " ' I '852' e# " ' " 572'8' 4 1-29 '
" 28 3' G (#' F'90 '8' 4 1-29 ' ' F' 0(8 2 (1' 4 1-29 ' +
M -' G6'5 '6 >2 (<' ; '1' ? <(5 '8' 4 1-29 ' '8< (-72 '
32(6(3 5'6 ' - 5621

, ?RL ; ' R = ; ; = " C ' , L@AX ' C M ' >7 M ' ; ; ' DR ' , ' E .
C2< 5'6 L< 5'- (8 ' K 4 " ' ' E ' H

E?X ; L ' R = ; ; = " C ' L " @4 ' C " ' M 42 ' IY 4 ' C , F4
DR ' L ' , (.
42' 42 #28-' ' E

, KEE " AM ' R = ; IA " @F ' DR ' 4 ' |,
E(6 ' '] , ' ' E ' '

L E@LA L , ' DL , .
=8 #- (64' = ' ; ' E

, KEELF , T ' >66? I ' "CEA?4="4' "A@? ; M' R 6 ; - C ' ; ; M '
M 45 ' >7 M ' D" " R , .
@292 - 8'' ; ' E

, MLIILA' IA"@F=4 ' >7 M ' DI ' , .
>(55'5' (

, -=GL ; ' E"A?@' IA=LMA=F , ' ?@' DI 'C' , .
(78' OK' . , #' ' (78' G(1#26' ?' 4-'' ; (1

, ?GG=@4 ' ; "MX ' DC ' ; ' , .
"88 66' ' "1- (6'02

4A"4 M' (! ! $ ' [&3 / ' < ' [' 4 M
E'8 2 C' 1' E6 6<2 1H A -21'' A 22 #'1(# ' A(15 # '8 19

, K ; ; ' F" >T "=@' T , ? C "4' " ' A @ ' D - ' " ' , .
F7' -

K + $ $ ' [' [' N ' D ' ' , .
M 2 83' ; ' E

4? ' 3 ' (! ! $ ' C " ' M ; - ; ' DR ' , .
L836'8<' F7 57' ('' I 229'8' L<J' <' "'' I (8<2' ' "'' '
G' < 82 ' 4 ' A'' G 228' ' A'' 42262 ' 4 ' ' A'' 4- 001'
R 66 ' 9

, K@TLA ' 4=A' A?ELAT ' F E ' C " ' DA ' , .
F(9 9 (81

, K@TLA ' R " ; TLA ' C = F L ' C = C L ' I G 4 ' DR ' , .
M 2<32' 8<' M 2<3 83'] 6] #' % " ## "

, K@TLA ' 4=A' R = ; ; =" C' R6 ; 4?@' : F 4 =' DR ' R ' , .
=8< ' '] , ' ; ' E' 8<' e# " 0 ' ' * , ' ; ' E

, KTF , =@4?@' , ?A"T=?' G?AM?@' D , ' G ' , .
G(6

, KTF , =4?@' " ' I ' C " ' D" ' I ' , .
R '66' 52' 4 ' R 66 ' 9

, KTT?@' AL ' "AT , KA' R ? ; ; "4T?@' C " ' D" ' J ' , .'
; 2(' Q6== ' ; #E' G C'88 83' F' < 8'6' ' @2J 9 '8' F' < 8'6'
R 129 '8' F' < 8'6

, KTT?@' AL ' ?4L> , ' LMCM@M' C " ' D ' L ' , '.
C(' '8' E 2-7 28

, KQ ; LX ' T , ? C " 4' , L@AX ' I A 4 ' DT ' , ' , .
" 9#7 0 '' ; ' E' E (6(3 ' ; ' E

, XC "@4 ' , L@A=' 4=C ?@' >7 M ' D ' , .
A 0281' ; ' E' G T28 2 1' ; ' E' G '8' M 5 ' ; ' E

=; ELAT ' 4=A' F?KATL@"X' >LA6GA=@ ' : F A ' : F 4 \
DF > = .
L <2852

=@GA"C ' ? , @' : L ; ; 4 ' C " ' ; ; M ' D ' : ' = .
; 216 2 ' T7(7'1' L ' F ' 4' ' ' E ' 428 (' @'11' ' 46' 2 '
; ' . ' 49 -7 ' "<' 9' ; ' EG' 4 8'#- ' ' ; ' J1

=@GA"C ' T , ? C "4' " ; ; "@' C " ' ; ; M ' DT ' " ' = .
L836'8<' = ' e)# # ' Q ' D ' E' ' "11 38'-1' F7 6-2 8'
, 8< 2<1' F62' 83' , (12' , (6 <' ' 6623 - 9 '5 ' =81 '852'
D ' E' ; (8<(8' 1 #' >(1-' '8<' >(1-'6' 42 52'
K829#6(928-' '3 '85 ' d2

=@@L4 ' " ; LQ"@MLA' T"X ; ?A ' C " ' ; ; M ' D" ' T ' = .
: 8(W' (78' > 6'-2 ' >(#- 1

=A =@L ' R = ; ; =" C ' ILAGK44?@' C " ' DR ' I ' \ .
; 2 #((6

=4" "F ' >A?I ' K ; L4 ' D ' = .
"90(12' G' < ' "882' (' I '852' M ' E266' ' G 66'792' '8<
2'8' I '85 1' = ' ; (1' Q66

"F : 4?@' EL@ "C=@' M"XM?@' >7 M DE M .
; 88'2 1

"F : 4?@' >A?>' , L@AX ' ? C ' M ; -- ' ; ; M ' 4 ' [
>' 928 <21' (' L62 '' ' 4(5 '-21' 4(#7 1-1' ' 4#2 1 ## 1' ' T7'621'
&0 , 0 ' Q28(5 '-21' Q28(#7'821' # ' F(6(#7(8' Y28(' ('
' L62'

"F : 4?@' ; =LKT F ? ; ?@L ; ' ; ?K=4' F , "A ; L4 ' A L ' F C G

I (- 5'- (8' '8<' 4 2325 ' -

"F?E=' F , "A ; L4' T ' DF ' T ' T .
> 8- 83'

"F?E4 ' >A?I ' ?4L> , ' M ; -- ' D '
2J ' T72' R '8<2 83' @2-7 8 9 ' >'11(2 ' > 9 ' T'02 '
8' <21' I2'1-' (

"CL4 ' L#CK@M' "@L4 ' " C ' >7 M)' ; ; M ' DL ' ' .
> (-25- (8

"CL4 ' ; =?@L ; ' I A G 4 ' D- .
T '81 ''6'] , ' D ' E

"CL4 ' R = ; ; =" C ' >A=FL ' DR ' >' .
E' 2' ' C ' ' , 286 ' R ' L ' (#6 83 ' A < ' <' R '-1(8'
R 66 ' 9' ' E'

"C=L4?@' GL?AGL ' F C G ' C " ' DG ' .
F7 8'' ; ' . ' , J '83' , (' X '83-1B2 : '83

"4TA?R ' >A?I ' C?AA=4 ' >7 . ' & ' [
"1- (6(3 ' E'0 6(8 '' '8<' "11 '' & #' j #,'' E'0 g
6(8 '8' '8<' "11 '8' A26 3 (8' E26' G63' 9N17' L# 5' (' G 6'' '
' ? 928' 4 8' ; = " . ' d5

"X@L ' : =@G4 ; LX' G"A ; "@M' D : ' G ' .
E(18 '' '8<' , 2 B23(8'' F ('- ' 46' (8 '' G(' ' C'6' '
" 57 #26'3('] , ' >(- 3'6' e# " 0 ' '8<'] , '
4#' 8' h# " 0 ' '* , ,' d5

L"@4 ' "CL4 ' , ? >R ? ? M ' C " ' I A 4 ' [' 4 ' [
C(625 62

LEE ' 4=A' A=F , "AM' F ; " LA , ? K4L ' ; ; M ' M F ; ' DA ' F ' .
" 1-(#7' 821' E' 557 6 <21' M2 9 (1-72821' L # <21' G 22 '
; -2 '- 2' = ' . # E' =1' 2K1' =1(5 '-21' ; 1 '1' ; ' E'
?6 9# '' ; ' E' ' > 8<' ' ; ' . ' A72-(5' T7 5 < <21'
; ' . ' T (' '8<' T ('<' ; ' E

LIILA4?@' ?4L> , ' D .
E((-7' L<J 8

L@ : =@4 ' AL ' M ' L ' DM ' L ' .
F'6 8 1- (' C 2-7 (< 1-1' F7' 621' T7 (9 '1

L@ : 1 ' [' $! K' (K ! I I ' 8 ' (' 8
T 1-1

LA =4 4C=T , ' AL ' IALMLA=F :' ? , @' C " ' I A " 4 '
I A 4 ' DI ' ' 4 .
F7 (8(3 '#7

L ?@4 ' R = ; ; =" C ' 4T"@ ; LX' ; ; M ' DR ' 4 ' .
E((62' G2(32' M2' C(3'8' "

?FL ; X@' F ? ; ' -6 ; 6" @' A?ELAT' ? , @' D ' A ' ' .
I 2J (1'] , G' ? <8' 852'] #) ' 1 # ' ' * #" '
%I6 # , ' G' 1(8' C(9- 831

?, @4 ' AL ' F ; "KML ' , LAC"@@' R " ; TLA ' C " ' M ; --
DF ' , ' R ' .
E'0 6(8 '8' ; ' J ' ' 4'00'-7' + ' ' . , ,

?, @4?@' F , "A ; L4 ' C " ' DF ' .
LW572n82' ; '] E

?, @4?@' F , "A ; L4 ' >=LA>?=@T ' DF ' > ' .
> 82

?, @4T?@' " ; LQ"@MLA ' D" ' .
K 9-2< 4-'-21'] , ' ' E

?, @4T?@' " ; LQ"@MLA' : L=T , ' D : ' .
E 'B 6'] , ' ; ' E

?, @4T?@' 4=A' , L@AX' , "C=; T?@' GFCG ' : F E
D , ' , ' .
E'8- ' ; ' 83 '321' E -17' F28- '6 " 5' ' ; 02 ' ' T 8 1 ' '
K3'8<' ' K8 ? (

?, @4T?@' , L@AX ' > , L ; >4 ' D , ' > ' .'
" 92 5'8' R ' ' (' =8<2#28<2852' = ' b # ,

?; ; =IIE ' " AT , KA' LA@L4T ' C " ' D" ' L ' .
F(8- 8 2< I '5- (81' C'W 9 '' '8<' C 8 9 ' ' 42 21

?; X ' F , "A ; L4' "4>LA ' I A 4 ' I A " 4 DF .
D! 92 '' ; 5 <'' ' F' 92 '' ?015 '' ; ' E=P : '62 <(15(#2

?@L4 ' L ' " ' ; IALM ' DL ' " ' .
F2¥ 8 ' E28 28 -(' ; ' . ' G(6<28' A(12' E' ' C'52'
#6'-2' ' E' ' O ' 57

?@L4' , L@AX' ; LR=4 ' C " ' C M ' CAF4 ' IAF >
D , ; .
Q A ' ' T 2'-8W28-

?@L4 ' , L@AX' 4TK"AT ' C " ' D , ' 4 ' .
A(92' . # ' (' ; ' E' (0 , ' o #' ; ' E' '8<
. # '] , ' ; ' EE' F(1- 92' . #"# ' e ##Y ' % 6, '
' o ' A(9 '8' " -' T72'- 2' " 85 28-' ; ' EG' F'21' '
6 1' d5

?@L4 ' ? , @' C ? AA=4 ' C " ' D ' C ' .
R '621' = "6 "#

?AM"@' A=F , "AM' DA ' .
M ' 37-1' D! ' E

O#' 5 ,' ' + Y# ,' #' O#' * " 6 #' # ' ' , "6 ,0' O#' (+6

QQ=Q ' %\

?XFL'T,?C"4'"T,?;'E;"' DT'"' .
"0'0<''' " 5''% 0 "'' E257 '8''' F(1- 92' E'
,'9 - 5'A'521'D=.'':' (8<('' @23 ('7 ' E

[;G'ELA@,"AM' DE' .
C(83(61'= "6 "#

:"A"GL?AGL =TF,'>A=@FL'EO =M"A' DE': .
E'17 -12

:L"@L' >A?I' "KGK4TK4' ,L@AX' ;;M' IAG4'
IA"8-7 (#=81-' "',':.
T #(6'7% 0'.! E'7 ' E''K '6"6-'5

:L"AX'F,"A;L4'IA"@F=4'C "' DF'I':.
83

T3 G3 'N T' &' N'T
(-83'C'57 821

:L;;X'F?;?@L;'A'C'E'I'M4?' DA'C' 'I':.
4 37-1

:L;4LX'F;"AL@FL',=;;'" C '-; E' DF',' d .
T-62'G ' '8-22'F(9#'7 21

:L;T=L' ?,@'4F?TT';;M'I4 4'I4"' D '4':.
"00'<2' " 5''] , '' F(83(' I 22'4-'-2'7 ' E' I8'
6'8<'7 ' E' I68<2 1' C'--72J'' ; 831-(82' M1 <''
@'-(8'6'M20-'7 ' E

:LC>'>A?I' "CL4'IKAC"@'>45' D 'I':.
C 82 '6'M2#(1 -1

T3&G3'K ''6'A?ELAT'C 81-F L' D,'A':.
>82 9'-5'M21#'-57'P T2623 '#7'' T262#7(82

:L@MA=F:'"'I' D" I':.
L90(<2 '7 ' E

:L@@LMX' 4=A' ";LQ"@MLA'E;"F:=L' R=;;="C' ;;M'
IA4' -" E R':.
I 5-(8

:L@@LMX'AL '"AF,=E";M'A'4 'C " 'MM' D"'A'i':.
T'02 8'562'' T29#62'7 ' E

:L@@LMX'4=A'F,"A;L4'C">F?-C':FCG' DF'C' H
F(9 92 5 '6'T 2'-21'' I 22'>(-1

:L@@LMX'AT',?@'4=A'R=;;="C'A"@@';;M' DR'A':.
A 11266'?':66(J28';(<

:L@@LTT'AL 'A?ALAT',"TF,'C " 'MM' DA': : .
>1'691'E(('('D

:L@T'R=;;="C'F,"A;L4'C"A:' DF':.
M'66 83'!(<

T3 'G BN'[B4 '"' K $ '& 'N /' ["'T '
F 56(1-(8 '-''=57-7 (6(3'7 ' E'A' ' E'4 57 ' '
47' '7 ' E

:L44;LA'>A?I':?@A"M'>7M' +:':.
C'8<2'81'7 ' E

T3i "3 'G' >'N'! '! K'(! ' $' + ' ' 7M
DI':.
F(99 82'4# #)

:LX@L4' ?,@'@L =;;L'C " 'M45' D '@':.
2 (81'R 66 '9'4-'862

:,@?>II'ILA@"@M' DI':.
C'<('' >'8-83'4 # ' #" 'G >(-k261'' 'I

:=MM'EL@ "C=@'MF;' DE'" aH
4(5(6(3

:=:KF,='E"A?@'M"=A?:K'C " 'M45';;M' +:.
'#'8' 0#'(' !'

:=@G';L?@"AM'R=;;="C'C " 'I4"' D-'R':.
E'0 6(8'' '8< "11 '' (0 "'' @## ' 0#' :# "#
1 " #

:=@G4I?AM' F,"A;L4' ;LT 6EA6MGL' C " ' IA,61-4'
I4"' DF';':.
L<J'<'= ' G6(521-2' , 9#7 2'M 2'(' ,28 T'=
'8<' = ';'85'1-2' (78'('G' 8-'M~ 2'(' 'A 57'<'==''
'8<'=== 'R' J 5 'A 57'<' C2 662'>' '#'X('A 57'<'
M 2'(''8<'(-72'L836 17'0(3'#7 21'('-72'1'72'#2 (<

:=A:'LMR"AM'F"CLA?@'M42' DL'F':.
M28-1-

:=A:K>'T,?C"4'C " ';;M' DT':.
L112821'7 ' E''<'8'7 ' E'G 6'8'-72'"#S1-'-2' '
E';'11'K2'' 4'8-4 9(8'F(9-2'<2'7 ' E

:=TF,=@' LAX'AL 'GL?AGL'R=;;="C'C " 'MM'I4 "
DG'R':.'
, --28'K6 57'(8

:@LF,T'>A?I'LMCK@M'>7M 'C 45 T227 'I;F' ZL':
¨ 62'06 83' M 283' I 8 17 83' 6K<3('' C2 52 1 83' T2W-62'
8-83'4 6! 6 "

:@?TT'F"AG=;;'G=;4T?@'M 45' DF'G :.
>7(-(92-

:@?Q'>A?I'GL?AGL'R=;;="C'M M';;M' DG'R'T
F7 1-'8-'

T m' G '4B< A' '& ' 4 'T
"6#1'1 ' '1 6

:@?Q'R=@=IALM'I' DR I':.
4'6'<8

:?@?MX'>"A;'GL?AGL' D>'O':.
E(<(82'' M(8'-266('' ,'61'I '81'' A 02 W1'7 ' E'G 45 6#'
- 2' ' E'' T28 2-1' ' E' i 8'M 2 ' b!' E' R'--2k '
"8-(82'' d5

:?@?R'AA?I'46L@'#7M' +4':.
M ' < '8'' C 8<'4' T 02-(E 88'8';'83 '321

T' ;'I' >'>' 'm 7 ' ' >'m'5
>'#'5 '], 'I*I "

:A?>?T:=@'>A=@FL'>LTLA'";LQL= =TG,' D>'"':.
"8' 57 19 ';-7 '8 '81' '8<6 2--1'], G '8<' -5621'(8'
A 11 "8'-(3 <#7

T'+: ''>A?I'GK4T" '>7M' DG':.
"- 1'' "7'8'4 1'' " 3 1-82'4' 8-'(',##(.'P ,##(6 - 1'' '
= 28'2#1' 1-8'C' -

T + $ # K 'I' >'T ' T 'T'
' G 22';-2 '- 2'==' 2 #

T ?&&3 'I' >'?TTG'>"M' D('q E
?52'8' '8<?52'8(3 '#7'7 ' E

:K@L'GE?AGE'IALMLA=F:'" C '>7M 'M45' DG'I':.
6"#<8 ''8<'G29 F -- 83

;"EA?44L',L@A=' D,';.
, 37'('4-'F72

"BBI3 3''"'6LA,=L@'ML'M R--' +T'7L'@ E
T 02-'7 ' E' 'M

C : L >A$I :=A4$>> C " ' D: .
E 062' j#'' #, # ' #$ ' ' R#, ' '8< #$6 '
G' C' '-72'9(-72'(' 21 1'D+'#S .'' >2-2 '4'8-''
>2-2 'L# 1-621'?'' 4?<28',2 8 '88' (8'' T'-'8

U' 5 'G4 G'& N g/' N'
G2(6(3 5'6'425-(81'('"6#1'' "1 '' " 1- '' F7 8'' L (#2'
G2 9'8'', 9'6' '' '#'8' 4J2<28'' [?

;"CE'>A?I',?A"FE'C " ';;M'M42'IA4' D,' # '
M 8'8-51'' ,'8(85 "8'6 1 1'' C257'8 51' 0# # ''
25-('"8'6 1 1'' R' 2

;"C?KALKQ'"@MALR' "F:4?@' D" ' ';.
" 328-8'' e# " 0 G' E(6 '' e# " 0 ' ,' * , ,'G
E 'B 6' e# " 0 ' ' * , ,'' E~28?4 " 21'' F7 62'
e# " 0 ' ' * , ,'G F(6(90'' e# " 0 ' ' * , ,''
C2W 5(' 1 " 0 G' >2 ' e# " 0 ' ' * , ,G '282'
' B 26''e# 0 ' 'Q , ,'G' d5

U' 3d 3 '8 '& '& A' '= j E
4(' * ' ':,# ,#

;"@L>??;L'4T"@;LX'C " ' D4';>.
E -(8'4 'A 57' <'E'' L3 #-'], ''==' 7 ' E

;; '8 '& '! ' % ! ' ' 8'$ ' ' '
=8<(F 8''I 2857'7 ' E

;"@G "@MALR';;M' D"';.
45(-6'8<'], 'G "##' -(81'' E'66'<1'' F'1 2-' ;2--2 1''
F 1-'6 G'B 83' I' ' I'9 6 ' G 82 'L<9 8<' ,'8-'
831'' ;'' F6(57?H' C(6|2P C -7(6(3'' @'92 7= ' '
&#, ' j #,E'G >(6-2 32 1-' > (92-72 1' >1 57 5'6 A2'
12' 4'' 425(8<4 37-'' T'62'' T(-2 # 19

"'G BN'(! ! $', 'M42' DR', '-.
E (#7 -''' >-2 <(#7 -'

T3/ 3 '/ '3 < 'A"X':FE'IA4'M45';;M
DL'A';.'' '
" '578<''' " -7 (#(<''' ;'926K0 '857 '' 7 ' E'G C2-' '
92 19'P C(66 15''7 ' E'G C 1126 7 ' E'Y((6(3

;">R?AT,'>A?>'F,"A;L4'C 42';;M'IG4'>A3
DF';.'
G '#-(6-21'

;"AC$A4=A ?4L>,C > M42 ;;M MF; IA4' D ;
"2-72'' L82 32-51'' L82 3'7 ' E'G A'<' (,'T72('('
A'<(92-2'' K8-1'M 9281(81'(
BA 43' B 3 ' U'
@(9'8<

0#'5 ,' '+ Y#,' #'0#'*" 6#' #' ', "6,0'0#'(+6

B 3 /B '8 #;'& T BT'C >' D 'C'A(.
?'2 <32'4'9 26'T' 6('D '! E

A?E=@4?@'F,"A;L4'LMCK@M'@LRT?@'C ' DF'L'@'A.
L#N2'<2'F(9R -

A?E=@4?@' C" ?A GL@LA";'F,"A;L4' R";:LA' FE'
MF;' DF R A.
>28 8 6'' R''' 4'k9'85";+ #' *mDE' -('

A?E=@4?@'GLA";M'E 6;=>' DG'>'A.
F(181'4'9 26' C2-B(-8-

A?E=@4?@'>A?I',L@AX'R,LL;LA'C"' D,'R'A *
F'8-5621' ' E',' 0' ',(12"' f8f E'C'6'57';'
E'G C 5'7';' E'?0'<k0';' E'Y257' k0';' E

A?E=@4?@'>A?I'"CL4',"A LX'" C '>7M' D',' A.
A2 (9'-(8'T72

A?E=@4?@' LAX' AL ' ?4L>,'"AC=T"GL' C" ' MM
DT'"'A.
" 1-<21'"#(6(3'('' F62928-'=';' E'G, ##(6 - 1'T72'
F'8(81'('' 21 1'F7 1-'' 45 66 -'8'C' - 1

B T/ B'<! ! $'/$6%K' (';'.
C28<2611(78 E' -7(6<';' E'C(B'-' o$ E'>'621- 8"'
;' E'G >6' 8' 4(83'' T'66 1' T7(9'1'P R'382';' E'
R202

B T<3 '<! ! $'R";:LA'>7M' DR R A.
>'#'5 '],' { * '' F(856'" 310 3'F(8 211 (8'('
" 621'4 7?< ('':(-'4 8#<('' 4' '3(11'' F(8561'('
d5' "< '8'= '' "62W'8<2'===' F62928-'' ';2(Q==' '8<
0 (3 '#7 21'('(-72'#(#21'('-7('#2 (<

obe%o*' &ob1' A?ELAT' R=;;="C' MM' M;--';;M'
>7M' DA'R'A.
F 82 (9

A?;L4',?@'F,"A;L4'4TLR"AT'C "' DF'4'A.
C(-(' 27 5621'="0'R#0 #,

A?>L4'>A?I' "CL4',"AMX'C "' M-(' D ';A(.'
F(8-7 '81'L# 1-624'-('-72'' L#721 '81'L# 1-621'-7'-72

A?4F?L'4=A',L@AX'L@I=L;M';;M' D,'L'A.
>'1-2

A?4L' ?,@',?;;"@M'C "'A;6--' [' 4 '
7< ']', 'DM.'' @'#(62(8' 'G E(8'#' -2'1 '' I(57N'P
G' <'82' 8(-'';(J2' 4' ,<1(8'P 4 2 |1' L 9 9'8826'
(12#7'P T'K2 '8<''8<(-72'0(3 '#7 21'('-7'@'#(62(8 5
#2 (<

B/3' 4B& /'T T3#A ' D-':'A.
-(-

A?4LA,"=@'R 'M 42' DR'
G6'11';' E

A?44',KG,'CK@A?' D,'C'A.
"6572 9 '' A'6J' 1'5 6 '(, 6 'o "'* Y'
4 38'6'.' ' * " "'; ' E'8<'o ' ' * " "'; '
E'G T% .(3 '#7 '!` # '& ' " 0'; ' E' d5

A?44LTT='R=;;="C'C=F,"L;'DR'C'A.
F'-((8' 47266 2'' "8< 2'' <26' 4'-('' F(233 ('' G 81'
0(# 37' ;26 ' 4 ' >2-2'' C 66('' T 8-(2--('' T-'8'
'8<'0 (3 '#7 21'('(-72'#' 8-2 1

B/' 3 4J A' 3 ' A' '
T'9 61'P T7 31

A?K@M' ?,@',?A"FL'C "';;M' D',' A.
,'(8'P L' 6' d5' I-B32 '6<'1 ''@2 662'1 '' N-?'
"02 '852' E' 2 W T'#21- '' M(921<'' E(('' :8 37-'
42 52'' 45 -'32'' dp

A?R;"@M',L@AX'"' D,'"'A.
45 2J'% /'!* #',

AKM;LA'IALMLA=F:'R=;;="C'=4 ?'IG4' DL'R'A.
"3'-2'' E2 6' L92 '6<'' '<|'P A 0'G 4'##7 2''8<(-72'
329'1-(821' L'-7n ' 2';' E'' (65'8('' d5

AK44L;;',?@'ELATA"@M'"AT,KA'R=;;="C'C "'IA4
DE'"'R'A.
G2(92- ' 6';' E

AK44L;;'A=G,T',?@'GL?AGL'R=;;="C'LA4:=@L'C ")'
;;M' DG'R'L A.
G6'<1-(82'R'L

AKT,LAI?AM'>A?I'LA@L4T';;M '>7M'M45'IA4
DL'A *
A'<('5- -

AX;L'AL ',LAELAT'LMR"AM'C "'MM' D,'L'A.
R21-5(--'E ((2'I(11'

4"F,4'LMR=@'?TA?'" C=81;CE'IA4DL<68.'DL'?'4.
I 2'8<'I 2'LW-82-(7';' ! T72'-2'4 # ',"#
#0 ,

4"M;LA'>A?I'C=F,"L;'LA@L4T'C " ';;M' DC'L'4.
F(2< 5'-(8

4T' 6';'7!; + %' /% 2
E(11 2-'F'1 1-' IN826(8'G'K 5'8 19'G8 (8'C'<'92'
'8128 19'' O 2-19'' A(9'8'F'-7(6 5'F7 57'D ' E'd5'

4T'AL;=LA'T,L'A=G,T',?@';?AM'D4 'I '85 1',28 ' 2 82.'
GFE' /% 4
M (52'

/'[B4 '&B @ ?Q' &'/%'[
E -17'F(6 90'' D ' E

4T'>"K;'"@T,XCL' D"'4 >.
>' 1',' ;' ' E

4"=@T4EKAX'GL?AGL'LMR"AM'E"TLC"@';;M'M;--'
MF;' DG'/
I 2857';-2 '- 2'' A(9'852'' E'6B'5'' F(82 662'' (8 K2''
;'9' - 82'' C 57262-'' C(8-'382'' A'026'1'' A'5 82''
A(112'' '' 66(8'' (6-' 2'' *##

4";=4EKAX',?;;=@'M'" C ';;M' DA'M'4.
K8 -2<4-'-21'e# "';' ' E

4";C?@'AL '4TLR"AT'M=@GR";;'I?AMXFL'C " 'MM
D4'M'I'4.
;(3(1';' E

4";=?@='F"A;?' DF'4.
=-'K'8';'83 '32';' E

4"C>4?@'A";>,'";;L@'C " 'M 42'IA4' DA'"'/
4 8

4"C>4?@'AL"A "MC=A";'R'T';;M' DR'T'4.
"<9 '6-'"<9 8 1-'-(8';L #'* #,E

4"@M"X'AL 'R=;;="C'M;--';;M'M M' DR'/
E 062'j#'' #, # 'M'(

4"@MX4' t,@'LMR=@'C " 'M;--';;M' D 'L'4.
F6'11 51'' G 22'='J'' >' 1'8'1';)# # E'G >78'-72'L6<2''
>6 8'-72'X(832 '>(1(8' ' E''45'6 32'N' E

4"XFL' AL ' "AF,=E";M' ,L@AX' M;--';;M' MM'
3"',' 4.
E'0 6(8'' E'0 6(8 '' '8< "11 '' ; ' E' L50'-'8"''
G '7s7''': '11-21'' ;'(< 52'' ; < ''' 4' <'K'#'6 1''
4288'572 0' 4 1''' d5

4t,LAAL@',L@AX'IY4' D,'4F*
>6'-# 1';' E

4F,=MA?R=TY'>,=;=>'>7#'IF4' +>'4.
E22'' E '8<'' E 2J 83'' 4# -1'' R7 1 '' R 82

4F,=LC"@@'T,L?M?A':6M' DA'45.
F(81-'8-82'>' 6(57

4F,=;;LA' ILAA=@"@M' F"@@=@G' 4F?TT' C " ' M45
DL'F'4'4.
@2-B1572'> '39'-19'' 4#2852 ',2 02 -

4F,;L4=@GLA':"T,;LL@' D:'4.
E'3# #2' E 362'' M 9'' ,' # ; ' E' ,(8'' ? 3'8'
. # ']', '>'8((-2 D8#'/.'' 4# 82-' T 90 26' (6'
'8<'-5621'(6'(-72'9 5'6 81- 928-1

4F,;=F,'4=A'<! K $'5 ! '> ;'>' ;' ('/ K
I(21-1'8<'I(21-

4F,;?44'M" =M'IALMLA=F:'C "' A'/ K '
4J2'-|3'4 1-29

4F,KALA'LC=;'*7M' DL'4.
>7 6(';' E

4F,[AY',?@'F"A;';;A' DF'4.
F6' ',28 '' ,' 21'47-72 (<E

4F,K4TLA'>A?I'"AT,-A >7M'M45'>A4' D"'4.
4#25- (15(#

4F,R"E' ?,@'F,A=4T?>,LA'" C '>7M' D 'F'45.
F(8 2<2 '-2 4-'-21'('92 5'

F,R";;X'>A?I'IA=L#A F,' N''/6
:('8';' E

4F?TT'>A?I'F,"A;L4'"@MLA4?@'C "' DF'"'4.
6'

4F?TT' # @I6L;M',L@AX' C " ';;M'>7M'IA4
DA',' 4.
>'6'5(0(-'8' & #, #' > 83172 9'@'-7'8'26' T7 2-'
G 1-' 2' R 9 '-81(8'R 66'9'F 'J (<

4F?TT',"A?;M'4>L@FLA'C "' D,'4'4.'
M(J2

0#'5 ,' '+ Y#,' #'0#'* " 6 #' # ' ', "6,0'0#'(+6

4F?TT' 4=A' "CL4' GL?AGL' : F = \E' D 'G' 45 .
E 9 '' = 'J'<< '' C'8<'6' '] C2 : (83 P C 80 ' = A'83((8' '
47'8' 4-'-21'' T72 88'' T7 0'J'' fC2

4F?TT' 4=A' ?, @' : F C G 'M F Q ' ['4 .
C' - '6' ; 'J'' C 6 -' ' ; 'J

4F?TT' ; L4 ; =L' IALMLA=F' : F * C I ' D; ' I '4 .
E (2'' I '5-(

/ B ' (! ! $ '# ' < ' M' /
F(W' M' <'' M26' (572

4FA?GG4' R = ; ; =" C' ?4F"A' " C ' DR '? 4
R '6 2 ' R 66 '8 '

4FKMMLA' , ?A" FL' L ; =4 , "' Q ' L' 4 .
; (J2K' ' 921' A 11266'' 4-(J2' C-4' E22572

4LFF?CEL' TE?C "4' C "' DT '41 .
L836 17' ; -2 6- 2' D ' = .' P E(1J266'' F7N8 2 ' "'+ N' <2' '
M 5 281'' M(1-(2 1 '' I ' J52--' = N8 '' G 602 -' R ' 4'

(8'-7'8' D ' E' '80 37' 4 ' (78'' d5

/ 3A" < T 'G BG' $ '& M' N / ' / M
L 9 0 (6(3 '.' ; ' '6' I (91'' C2-' 9 (#7(1 1'' I (#'- 1'

4LL' >A? I ' , L= A6' D , ' /
"882' ('E --k7

4L ; E? A@L' TAL' A=G , T' , ?@' T , L' L "A ; ' ? I ' * E
, 981

4L ; ; "A' >AGA' R d ; =" C' X? KA? ' z ; M ' \ ' X ' Q E
; '- 8' ; -2 '- 2' '] E' ' F'- , 1' ' E' G , ('52' ' E' G'
28'6' '] E' ' C' - '6' ; 5 6 1' ' E' ; 5 2- 1''
>2- (8 1'' T2 2852' D9' E' ' 3 6' ' E

4LT , 4C=T , 'M" =M' I Y 4' DM ' i -4 .
" '

4ET?@ : "AA' 4=A' AL@AX' F C $' , '4 : .
"99 8 - ('' Q L' . ,'' G 8'' > 1-(6'' A 62

4LR "AM' >A? >' " ; ELAT' F , "A ; L4 ' C " ' A 4' + " ' F' / P
G 98(1#2 94'] >'6'2(0(-'8 ' 4#, 2

4 , "MR L ; ; '" AT , KA' C " ' C $ ' ; ; M ' I A F >' ' /
F'852'' , (74 83'' ; n (' ; ' J 1' W C '6' '' ' E' C '11'32''
>6'3 2' D- ' E' ' > (1- - -(8'' T29#2 '852

4 , "MR L ; ; ' ; =? @L ; ' ; "@FL ; ? T ' C " ' D; ' ; '4 .
A23 1- '- (8

/ 4 G' 4 ' F ' / I
E 5 562'' T 2' T 5 562

4 , "A> ' M" =M ' C " ' C E ' I Y 4 ' > , 4' DM ' 4 .
, 2W'#(<'' ' E' T2 9 -2

4 , "A> ' R = ; ; =" C ' < / K
T7(2' ' , 28 'M' <

4 , " R' ? I ' MK@ I LAC ; =@L ' T , L' A=G , T' , ?@' ; ? AM ' DT '4 .
2 38 ' < ' > 2 2

/ 4 < ' (! ! $ ' ' I ! ' ' =" M)' MA2 ' I 6 4
D J ' T1 ' 1 .
'M2J'' I (3' P 4n '66' 4 817 82

4 , L" AC "@ ' T , ? C "4' G" 4 : L ; ' DT ' G' 4 .
G2(32' , 28

/ 43AA3 / B ' (! ! $ ' / B ' & ' < ' ' /
G(3(6' , 2 -B|-'' ; 2 9 (8-(

4 , L >> "AM ' R = ; ; =" C' I ; LLTR ? ? = ; ' C ")' E 4 ' < ' N ' / K P'
"6320 '' " -792- 5' M 2 2 <24' F'65 6 1' ('' =8-2 #(6'- (8P
' C281 '- (8

4 , LA=@G , "C ' , KG , ' D , ' / $
"836 83

4 , LAA=@GT?@' >A? >' F , "A ; L4' 4F?TT' C M ' C " ' ; ; M '
M 42 I A 4' DF' 4' 4 .
E ' 8' &0 , '' C 1562' 8<' @2 2' 4# 8'6 F(<'&0 , " ''
4 9#'-72- 5' 4 1-29

4 , => ; LX' "AT , KA' L LALTT' C " ' M 45 ' > Y ` ' I ; 4 '
I A 4' D" ' L' 4 .
"5'8-7(52#7'6'' ' E '57 (#(<'' ' F7'2-(38'-7'' ' G'1-2(- 57'' '
: (7 857'' ' C21(B(' '' @2 K'-(<'' ' E' @292 - 8''
' E' G > '# 6(<2''G 4 # - 2 6(<2'' ' 49 -7' R K '9'
A(02 -1(8'' *#

4 , ?ATLA' F ; LCL@T' : =@G ' DF ' : ' 4 .
E (8-2' F7' 6(--2' L 9 6 ' '7<' "88 2' F(J#2 ' R 66 '9''
F '002' G2(32 G'1 2K' L6 B'02-7' P @2J1#'#2 1 '5 6, # '
& # , '

4 , ?TR L ; ; ' >A? I ' "CL4' T , ? C 4 ? @ ' >7 M ' D ' T ' * E'
E(8 '52' 4' 8-'' F(602 -'' , 1-('' ; '83 2<(5' ; (1' =
D' == ' =Q ' Q ' '8< Q=' ' C <<62' "321'' 257272 ' F' < 8 '6'
4 '5 6232 ' 4' 8- 4 9(8' F(9 -2' <2' ' E' *##

4 , ? R LAC "@ ' >A? I ' GA"@T' " C ' >7 M ' DG ' / ' J
"- 1' ' F(7' R 21' G' F (0(7 9' ' F 2-21' ' F 0262' ' G 2'-'
C(-72 ' ('-72' G(<1' ' C -7 '1' ' A02n' 4 0 " E' ' 4 85 2- 19' '
T' (0(6 9 '

46EALL' AL ' "CL4' I A G 4' D ' 4 .
"8-'8k8' ? ' C'<'3'15' ' C' - 1' @(1k ON

4=MGR=F : ' "AT , KA' C " ' ; ; M ' D" ' 4 .'
"2157 6 1

$MG R =F : ' L ; L"@?A' C=; MALM ' } % ' ; ; M ' DC 1' , 28 '
4 <3J6n~.' DL ' C ' 4 .
4# - '6 19

/ A" < T 'G BN' K '6 ' A' ' /
L-7 51' ' E

/ 3 3 / ' I ' > ' LMK" AM ' >7 M ' DL ' 4 .
>7 6(6(3 ' ' E

4=: L4 ' LA@L4T' LMR "AM ' C " ' D= ' L ' 4 .
, 7 '21- 1' , 2 '' , 2 921

4=CE ' "CL4 ' C ' O 4 .
I 2<2 5 '-72' G 2'-' ' E' ; 211 83' ' E' R 8<-278 '88'
' E
4=C>4?@' 4=A' " ; LQ"@MLA' AK44L ; ; ' C M ' ; ; M ' M 45 '
I A 4 DL< 8 .' D" ' A ' 4 .
?01-2- 51

4=C>4?@' AL ' "CL4' G=; ; =; "@M ' C " ' D ' G' 4 .
45(-6' 8<' L# 15(#'6' F7 57' (

/ [&G; B ' R =; ; =" C' " KGK4TK4' DR ' " ' 4 .
? 52 1' L # '* #,

4 , L" T ' R " ; TLA' R =; ; =" C ' M ; -- ' K M ' MF ; ' 3 ' R ' 4 .
; ' ' 9 (8

/ B ' I ' > ' (! ! $ ' & " ' >7 M ' ; ; M ' DR ' C ' 4 .
E' 85 (-' G2(32

4C=T , ' " AT , KA' , " C=; T? @' C " ' > 4 " ' ' 4 ' / $ '
E ((57'' G29 ' , '- ' P 2J26 ' o "' ' E

4C=T , ' EL@ " C=@' LK ' " C ' DA ' A ' 4 .
R7 -82 ' R 66 ' 9' MJ 37-

4C=T , ' , ?@' F , "A ; L4' LC?AX' DF' L ' 4 .
E6' 82' ' 921' G

4C=T , ' LMR "AM' ; K ' I ' 3 ' / ' /
C(-(' 27 5621' ! #) ' (# ' R#0 #,

; $! % K ' " 3B " 3' 3 ' " ' ' $ A
C' 59 ' 7(8

; $! % K ' I ' > ' GL?AGL' GALG?AX' C " ' DG ' G' 4 .
* '= # ' # ' E' 0(' (78 ' M(36'1' G' 8' M 80' '
R 67' 9'' ,28T 1?8' A(02 -'' ; 8<1' ' 4 ' M' <' C(8-9
3(92 2' "62W'8<2 ' A' 91' '' "66'8' 45(--' "62W'8<2 '
4- 683' R K ' 9' "62W'8<2 ' L' 6 (' ' E

4C=T , ' , L@AX' " ' L ' D , ' " ' C ' 4 .
F' ¥ (88 ' 6 KF

4C=T , ' ? , @' ?E ' [/ $ M
E'8 #-5 ' ' E

4C=T , ' AL ' ? , @' IALMLA=F : ' D ' I ' 4 .
45762 2 9' 572' ' E

4C=T , ' >A? I ' >AL4LA LM ' M M ' > - M ' D> ' / $
=88(528-' = ' ==' ' E 1' = ' '8<' ==

/ & 4 ' < ' # ' (! : ' < ' ' /
M2 0 ' 67' E' 6' $

4C=T , ' R = ; ; =" C ' F , "A ; L4' : F ' C " ' ; ; M ' I A 4 DL<68 .
DR ' F ' 4 .
E((37' 5 ,0' ' * ,0' ' M' 852' ' E

; $! % K ' (! ! $ ' A? ELAT4? @' ; ; M ' DR ' A ' 4 .
E' '6' ' F'8- 5621' D- J E' ' F7 (5621' E((1' (' ' E'
M25 '6(3 2' ' E' ' (26' ' E' C '6' 57' ' E' C|55'' '
C (6(57' ' E' P @ 92 '6' ' > 21-' ' E' G > (#72-' 5 '
E' ' >1' 781' E((' (' ' O H ' A' 92121' ' E' '
A2 276 8' ' *#

; $! % K ' R = ; ; =" C ' A? X ' C " ' >7 M ' DR ' A ' 4 .
F(9# (9 12' C2' 1 21' (' \ ` $' ' C 11(' F(9# (9 12' ' >(6 '
' 921' : 8(W

/ & 43 / ' I ' I ' " AT , KA ' I A 4 ' D" ' 4 .
I 6' 92

4@L ; ; ' I ALMLA=F : ' ? , @' C " ' DI ' ' 4 .
; <3' -2' ' A(0 8' , ((< ' E' ' 4#2812 ' L<9 8< ' E

/ B < ' 4 A ' 3 ' /
4 6 ' #' ' (# #

4? F=@' >A? I ' " ; EALF , T' >7 M ' D" ' 4 (.
= ' " '0' ' E' ; 20' 8(8' ' E' 4 8' ' 0#' + '
4 6 ' * '

0#' 5 ,' '+ Y# ,' #' 0#' * " 6 #' # ' ' , "6 ,0' 0# (+6

'4?CLA4'A?ALA-' DA'4(.
+(8;'Rk'f$' E

4?@@LA4F,L=@' >A?I' LMR"AM' "MO;I' C "
DL " '4-(.
>6' - 1

4?A;LX' >A?>' R=;;="C' A=TF,=L' C " ' M ; -- ' ; ; .
' A'4(.'
L 6 4' ;2 08 -B'

4?KT,R"AM' ?,@' DT'4(.
T #? '#7 '4 # '& ' " 0';' E

' 4>";M=@G'R=;;="C' DR'4.
"<< 1(8';' E

4>L@FLA'"AT,KA'F?L'>7".' D" 'F'4#.
"##'6'57 '8'C(8-' 81 'j

4> @FLA';L?@"AM' "CL4'C " 'IG4' D;' '4.
F 1-5 6(3-'#7 '' C 82 '6(3 '' G(8 (92-2 '' d5' "#'--2''
E (8--2' F'65-2' F7 (9 -2' =6928 -2' C 15(-2' >2-'6 -2'
O ' -B' T7(-2' '8<' - 5621'(8'?-72' 9 82 '6 1#25 21'

4>=FLA'AL 'LMR"AM'F;"A:L'C " ' 3 ' /I
G6'5 2

4>=L;C"@@'C"A=?@',' I 4 " ' DC ',' 4.
F' 5'- 2' F' -((8' G 602 -' "6 2<' G 228'J' ' :'-2''
>' 8- 83'o# # ' ;0'' >'1-26' A26 2'' 45 6- 2' x E''
47' 21#2' 2'& ,'' d5

4>=LA4'E '>,L@L'I 4 " 'I A=E " ' DA'>'4.
" 57 -25- 2' "162' F7('' ,(12'' >(57'' 4# 2-' T(J2 ''
T '52 '' ' 6-'' 66'' '8<' - 5621'(8'(-72'' 57 -25- '6
1 0 25-1
' 'LMR"AM'"@T,?@X' DL'"'4.
L625- (5 - (8

4>A=@G A=FL'4TL>,L@'LMR"AM'F E'C " ' D4'L'4 A.
LW572n 2';' N

4OK=AL' R=;;="C' E"AF;"X' C " ' I 4 " ' >AG4
DR'E'4.
E% P<' R'' C(62 'T7(9'1'' T7(9'1'" -7 'G(83

4T"@T?@'AL ' =@FL@T',L@AX'C " 'MM' D ',' 4.
G(1#26' C' 'G(1#26('4-'' C'--72J'G(1#26('4-'' ; 2'
G(1#26('4-

/ 4 &'K '6'43 B 3'IA=E"' DA',' 4.
" 57 -25- 2'4 #

4TLEE=@G' AL ' T,?C"4' A?4F?L' AAML' C " ' I ; 4 '
>Y 4 'IA4' DT'A'A'4.
#8-(9(1- ' '' C'6'5(4--'5'' T7 (1- '5'

4TLMC"@'LMCK@M'F;"AL@FL' DA'F'4.
R7 -- 2 ' (78'G 22862' '

4TLLM',' R=F:,"C' D,'R'4.
" 1- ' , 83' '],';' E'' =-'6 '],' DI.' G'-'
0'6<'' , 902 -'=083' '8<?-72'0(3 '#7 5'6' -5621

4TL@@=@G' ?,@'IALMLA=F:'C " ' ['N'/%
E 062'b ' #, # 'M' #$,' 'R#, ,'6 LW(< 1'E((' #''
;2 -5 1'' T' 3 9

4TL>,L@'4=A',LAELAT'E"AT 'C " '-; C ' D,'4 *
; --(8'\1-'L' 6'(

4TL>,L@'4=A';L4;=L':FE'M ; --' DA'4.
E (J8 83'A(02 -'' F' 6 62'T7(9'2

4TL>,L@4'I'G' DI'G'4.
G 602 -' 4 ' (78' ,(K' I '8'' A(112-- 'M'7-2'G'0 26'; '
E

4TL>,L@4'>A?I',L@AX'C?A4L'C " 'M ; --' D,'C'4.
; -- N'C'>'L'' C' 8-28(8'C'<'92'<2'' C'B' 8'C '02' '
,(8(N'' @25 2';' ' E

4TL>,L@4'>LAFX'4?CLA4'TXA=@G,"C' >' D>'/%
47((8

4TL L@4?@'A?ELAT';?K64' DA';'4.
EN '832

4TL L@4?@'4=A'T,?C"4'C M 'I A F >' DT'4.
#(1(8

4T?F:'LKGL@L' '/%
C 11(81';' ' E

4T?F:'4T'GL?AGL'C "' /%'"'/
L112821';' ES' 4 9(8'C'3 1' T72 '#2 -'2' T(0 -'T72'
E(('(

4T?F:;LX'F">T"=@'L'@'A L' DL'@'4.
E' '5 1

4T?F:C"@'>E?IA";>,'C M I A F >DL< 8.'I A 4DL< 8.'
DA'4.
>7' 9'5(6(3

4T?MM"AM'A=F,"AM',L@AX' DA',' 4.
,'J-7(82'@'-7'8 26

4T?AA'IA"@F=4'C"' DI'4
"5'<29 21'' M 26' I'062+d 9 21'F6'11 5'6' 4'8<'G2(32

4TA"F,LX';=EKT GL@LA";'4=A'A=F,"AM'A L)'G F 4;'
;; M '>A 4' DA'4.
"1 '' (#'1 ' '1 6

4TA"@GL'LMR"AM'I"=AEA?T,LA' DL'I'4.
E2' <162 '" 0 2'' ,(1'' =66 1- '-(8' # 0 ':#)# '
#' '#'8' #,#. ' ; ' E' C 8 '51' A2# 8'
,'' K-'9' (' d5'

4TAL"TIL=;M'A=F,"AM'";LQ"@MLA' DA'"'4.
2 <'G 12##2

4TAKTT',?@'A?ELAT' ?,@'C " 'I A 4' DA' '4.
,26 9

4TK"AT' "CL4'C?@TG?CLAX' D 'C'4.
I#15(6('

/ ? 'K '6'& ' 4'/%
F 1 1'' I2K2 7'57' ; <J 3' "'' =8< 5-(8' C2-29#1 '
57#1 1'' @(9 8'6 19'' 4#'52'8<'T 92'' K-7-' '8 19'' d5

4K;;= "@'R ;66"C':=AEX'>7 M)'M 45' DR'q'4.
F6'8

;+ 6'I' >'[&3/' A' D'4.
"21-72-51'' ;2J21'G2(32',28 ';' ' E

4KCCLA4'>A?I'R"=TLA'F? L@TAX' DR'F'4.
>2 1 1'' >2-(8 1';' E

4KC@LA'R=;;="C'GA",'C' DR'G'4.
'5 1(8'"8< 2J

4R"XT,;=@G'T,L'AT',?@';?AM'D4'4'9 26'C(8-'3.
" 'D4J.
" 0 - 32

4RLLT,L@AX'C " '>7M';;M' D,'4J.
L1#2 '8-('G 99';'F'G 99'R 67269'F'6'>7(82-51''
K8 2 1'6';'83 '321'' (6'#

ERLTL' >A?I' ,L@AX' E"AF;"X' C " ' M ; -- ' MM
D,'E'4.
I'-72 1'('-72'F7 57

4R=@EKA@L'";GLA@?@'F,"A;L4' D"'F'4.
E2' 9(8-' '8<' I62-572'' F7'#9'8' G2(32';' E'G F(8g
3 2 2'R 66'9'P ,3(' 5-('' :2'-1';' E'G ;'8<(' R'4'
C'6(J2' F7 1-(#72'' O 228'(' 45(-1'' T(82
F 6' R201-2' (77

4R=@EKA@L',';"RAL@FL' D,';'4.
I6'3' C2<'6' \ ' # ,

4R=@EKA@L,"@,"C' ?,@'F"4T;LC"@' >' D 'F'4 ,.
F 29'-(8'* , ,

4XC?@M4' ?,@'"MM=@GT?@';;M' D;'"'4.
=-'6 '], ' DF;'' A28' 11'852' I 626('' C'57 ' 266''
C78 - 1'' >2-' 57'' >(33('' >(6-'8'' T'11('' d5

4XC?@4'"AT,KA' '/6
G(85(-'M2'',' <'T7(9'1'' C'66' 9N'4-N#7'82' 2 6'82'
>' 6' #2 1'<2'6H k2 "<'9

4XC?@4',L@AX' 4 /6
F7'90(<'F(9-2'<2

T"=T'>LTLA'GKT,A=L';;M' +>'G'T.
,'9 6-(8'4 'R 66'9'A(Jk8' :8(-'' C'WJ266' '921'F62 ''
O '-29 081';' ' E

T"@4;LX'"AT,KA'GL?AGL'C " ' I ; 4' D"'G'T.
>6'8-1'.

T"AA'>A?I'A";>,'4T?F:C"@' DA'4'Q.
G '8<'F'8 (8'' ,<1(8'A 2'' @2J'X(';' E

-"K@-?@'AL 'LT,'FALM';K:L' DL'
"F(6 -2' "n ' '' F6' <(' F'9# (8'L<9 8<' C2657(''
F'41'8<2' G20 32'' I25 287'9'' I 172' (78' 21 -1';'
E'G ;((6'' >(62'F'<9'6' T(nK29'<k'T7(9'1'' d5

T"K44=G'>A?I'IA"@:'R=;;="C' DI'R'T.
T'

T"X;?A'AL 'F,"A;L4'C " 'MM';;M' DF'T.
G2(92- 5'6'F(8-8 -'' > 2'"0(-71

T"X;?A',L@AX'C"ATX@'C " 'I A " 4'IA4' D,'C'T.
@2J-(8'4 '=1''5

T"X;?A',L@AX'?4E?A@';;E' D,'?'T.
M(8 1 1'" 2(#'3-5 1

' 0#'5 ,' '+ Y#,' #'0#'* " 6#' #' ' , "6,0'0#'(! +6

-F , LAT : ? I I ' L " R C 6 - ' D ' T .
>(7?-*(1

TLMMLA ' AL@AX ' A=F , " AM ' I 4 " ' D , ' A ' T .
= 0 ' 21 ' ; ' E ' >'8 #C2-1 ' ' >2 (< 5'61 ' A 9 2 ' T7(9 '1 '
40'721#2 ' 2 ' + " 0 ' 4(5 2- 21 ' ; 2' 82< ' R((<'
"- -7(8 ' "

TL ; I ?AM ' AL ' ? , @ ' D ' T .
\ #, # ' ! E6 ' R2162 ' (78P ' R2462 '# C2-7(< 1- ' F7 57

% $ I ' ; ! ' ' 4 A ' DA ' T .
C'0 '--'1 ' ; ' E

% $ I ' ; ! ' ' A=F , " AM ' F " C " F ' E " AT ' F = L ' DA ' F ' T .
@ 5(0 '616$ 8<1

T , " TF , LA ' AL ' GA=I I=T , L4 ' R , LL ; LA ' C " ' E M
DG ' R ' T .
" '0 ' ' . I6 #, '] , ' '8<' = # 6 #' " '0 '8' >7 6(1(#7 '
; ' E ' C '7(9 7 2<'8' A273 (8 ' E (3 '#7 21 ' (' " '0 '8'
#(2-1 ' ' -7(1 ' d5 ' '8<' - 5621 ' (8 ' -72' 57 2 ' 125-1 ' (' =16 ' 9

T , L ? E " ; M ' N ' '! 5 ' ! % ' $ ' > ' 7 ' %
L5(8(76 0 ' L7-(9 (6(3 '

T , =4L ; T ? @ 2M LA ' 4=A ' R = ; ; = " C ' TKA@LA ' : F C G ' F = L '
M 45 ' ; ; M ' >7 M ' I ; 4 ' I A 4 ' DR ' T ' T # .
M2(-7 ' 9 ' G2(32 ' , W62 ' T ' , ' >6 ' 8-1 ' : , + L

4 B & / ' # ' % ' D " ' T 4 .
@ '#(62(8' = ,

4 B & / ' G BN ' % ! ' A ' ' ' %
" 0 11(8

4 B & / ' A ! ' + > ' ' ' + ' %
E 25(8 ' F '2 #7 66 ' F ' < ' ' G6 ' 9(3 '817 2 ' G(J2 '
; 6 '8-J -' C ' (' C2 -7 ' T < 6 ' A7(8<<' ' 4J '812'

T , ? C " 4 ' @ ? AT , F ? TL ' R , =TA=MGL ' C " ' D@ ' R ' T .
"8 9 '6 R(17 #P F '88 0 '6 19 ' F6 ' ('852 ' M 8 '- (8 '
M 2 '91 ' I2- 17 19 ' I(6 6(2 ' C '3 5 ' T262#' -7 ' R -57g
5 ' -' ' d5

T , ? C " 4 ' ? ; MI=L ; M ' I Y 4 ' I A 4 ' D$ ' T .
>'83(78 ' ; ' E ' 4 8 ' D J ' E

T , ? C " 4 ' R ' F " L ' DR ' F ' T .
F(826 1 '#2-2 ' (8 ' L85' 1- 5 ' >' 8- 83

T , ? C >4 ? @ ' >A ? I ' M H " AFX ' RL@TR ? AT , ' F A ' C "
F> ' J ' T .
A ' ' (78

T , ? C >4 ? @ ' 4=A ' LMR " AM ' C " A@ML ' a F E ' = 4 ? ' M ? = '
; ; M) ' M ; 6-- ' DI ' C ' T .
" -(3 '#7 P = 26(9 '- 5 ' 6K 8 8'-2< C44 ' C '8 15 #-'
>'6 '2(3 '#7 ' >'6 9#121-' >'#2 ' , J (' >'# - 1 ' >' 57g
9 28-' ' 42 '61 ' 47(-- '8<' e ##Y ' ' o ' ' 0 " 0 '
4- 57(9 2-

T , ? C >4 ? @ ' 4=A ' , L@AX ' ' 4 ' K
F 29 '- (8

T , ? C >4 ? @ ' >A ? I ' 4= ; "@==4 ' > , = ; ; =>4 ' - M ' M 45 ' I A "=
D4 ' > ' T .
F(9#'11 ' ; ' E

T , ? C 4 ? @ ' M " =M ' FA ? " ; ' DM ' F ' T .
E (J82 ' , '06(-' : 8 37-' F((-' M ' 0 38 P M 'B ' @ ' '
A(112 ' ' >2 2 ' L ' T ' T (?8 ' F(82-'8-

T , ? C 4 ? @ ' >A ? I ' L ; = , K ' " C ' M 45 ' I 7 M ' DL ' T .
R 26< 83 ' % #

4 B & / B ' / ' [; I K ' 8 K ' $ ' Ü 3 ' I ' ;
I A 4 ' D T .
F(8< 5- (8 ' L625- 5 ' =Y "O ' e ,#, ' L625- 5 ' R ' 2 ' C '382-('
?#- 51 ' C '--2 P AS8-328 ' A ' 1 ' '5 9 ' T 02

4 B BAA/3 ' 4 B A ? ' K '
=526 '8<' e# " 0 ' ,'* , ,

4 B /B ' ' ' D " ' T '- .
; 2 0('-' L # '* #,

T , KA4 I=L ; M ' "CL4 ' A F , " AM ' C " ' D ' A ' T .
>' 8266 ' F7' 621 ' 4-2R' -

%! $ ' 4 ' 6 ' 4 ' !
M(B ' >(-3 2-2 ' T7(025 2

T=L ; L ' > ' " ' D> ' " ' ' T .
>6 '8- 8

T= ; ; LX ' " AT , KA ' " KGK4TK4 ' C " ' D " ' " ' T .
L1- 2882

T ? M ' C " AFK4 ' @=LEK , A ' C " ' DC ' @ ' T .
L#7(' , 26(-1 ' 4#' -' ' d5 ' F62(92821 ' ; 2(8 5 '1
' ; 1'8<2 ' >' 1'8 '1' '8<' (-72 ' G 22 ' 0 (3 '#7 21

T ? KT ' >A ? I ' T , ? C " 4 ' IALMLA=F : ' C " ' DT ' I ' T .
L<J ' <'= ' ==' '8<=== ' L<J ' <' -72' E6 '5 ' , 852

T ? LX ' M ? @ " ; M ' IA " @F=4 ' DM ' I ' T .
E '57 ' ' E22-7(28 ' ' R '382 ' ; ' E ' '8<' 0 (3 '#7 21 ' (' (-72 '
9 15 '81 ' C 15 ' F(8- '# 8-'6 I(91 ' F(8-2 #(8- ' '
I 3 2 ' , ' 9(8 ' =81- 928-'- (8 ' ?#2 f ' 4(8'-' ' I(91 '
*##

T ? LX ' AL ' MK@F " @ ' FA ? ? : L4 ' C " ' DM ' F ' T (.
G ' ' T7(9 '1 ' '

T ? X ' FA " R I ? AM ' , ? RL ; ; ' " C ' ; ; M ' DF ' , ' T .
L55621 '1-21 ' ' LB2 36 ' (0 ' ; ' E ' G ' > (2 01 ' E((' (y '
R 1<(9 ' E((' (' ' R 1<(9 ' ; -2 '- 2

T ? YLA ' AL ' , L@AX ' I " @4 , " RL ' C " ' IAG4 ' D , ' ! ' T .
"-- 5 ' ' L 0(2 ' ' 4'8-(8 ' ' T7211'6 ' ' T7 '52 ' ' T 20 B(8<

TAL@T ' >A ? I ' R = ; ; = " C ' >LTLAI=L ; M ' ' ; ; M ' MF ;
DR ' > ' T .
; '8 2

B 3 ' / ' 43 @ ' T & " ' 4 ' '
M '8 02 ' o6 '] , ' ; ' E

? / B 3 ' B A ' & ' U ' '
"3 5 6- 2 ' ; ' E ' " 621 ' I '852 ' * , ' ' =8<(F7 8 ' '
1 # 0 ' ; ' E ' >' 1 ' e# " 0 ' ' * , ' ' T (21

TK : L ' 4=A ' ? , @ ' E " TTX ' C M ' M 42 ' ; ; M ' I 4 DL< 8 .
D ' E ' T .
"#7 '1 ' ' , ##(5 '-21 ' , 1-2 ' '; ' E ' =81 '8 - ' 4 # 'G
C2< 5 '6 L< 5 '- (8

TKA@LA ' FKT , ELAT ' , " C = ; T ? @ ' C " ' DF ' , ' T .
E 062 ' j # ' ' #, # ' ' (0 "

TKA@LA ' >A ? I ' IALMLA=F : ' "F : 4 ? @ ' C " ' ; ; M ' M ; -- '
' >7 M ' DI ' ' T .
K8 -2<' 4-'-21 '] , ' ; ' E

TKA@LA ' GL ? AGL ' "CL4 ' DG ' ' T .
F6 ' 28<(8 ' F(81- - - (81 ' (' ' F(86 ' ' , 8< 2<' ' @(-7 ' 9#-(8 '
"11 B2 ' (' ' > (' (8 ' A '#2 ' A < 831 ' ' 4(2 ' T 8(<' ' @N521g
1 -'1 ' ' R '#28-' 2

TKA@LA ' >A ? I ' , LAELAT ' , " ; ; ' C " ' M 45 ' M F ; ' I A 4
D , ' , ' T .
L56 #12 ' ; ' E ' >7(-(3 '#7 ' F2621- '6 ' &0 # '
F2621- '6]

TR LLM=L ' LT , L ; ' DC 1 ' " 622 ' TJ22< 2. ' DL ' " ' T .
M 'B ' ># (

TR=44 ' 4=A ' TA " LA4 ' : F ' M F ; ' I A 4 ' DT ' T .
F(81 6 '-2 ' (' -72 ' 42 ' ' F(8 (5 '- (8 ' ; ' E ' 42 ' ' ; ' J1

TX ; ? A ' LMR " AM ' EKA@LTT ' ; ; M ' M ? ; ' I A 4 ' DL ' ' E
"8-7 (#(6(3 ' ' L 8 57 ' C2W 5(' . # '] , ' ' EN '
G '-7 ' ' O <2 '6 ' 4 '6 -'- (81

K : =T " ' G ? , ' DG K .
T((

? < ' I ' > ' (! ! $ ' F " R T , ? A@L ' ; ; M ' : D =81- F L '
C =8 - C L ' " A = E " ' I A 4 ' D ' F ' K .
E <321 ' , < ' 6 5 ' R 8<9 K

" ; ? =4 ' ? 4L > , ' C " A=L ' @ ? L ; ' D@ ' .
E '126 ' F(85 6 (' F(81- '852 ' F(85 6 # ' >1 ' ' F(85 6 ('
"62W '8<2 ' ' (78QQ6== ' C ' - 8 ' ' C ' 16 1 ' (' >'< '
dF

"@L4 ' >A ? I ' ' " ' D ' " ' .
C2-7(< 19 ' DJ ' E

" KG , " @ ' , LAELAT ' CKAA " X ' C " ' I 4 " ' D , ' C ' .
"60 '8 ' F(8-211 ' (' F7 ' 621 ' L<J ' <' , 28 ' 4- ' -' DF ' < 8 '6
H , > 2 - 2 8 < 2 ' : 83 ' L ~ ' 4- ' M ' <1 '
R '621 ' e# " 0 ' ' * , ' '8<'] , ' Z

L6TF , ' ? , @ ' ; ; M ' D ' .'
F(C8 ' ' ; ' E

L@" E ; L4 ' AL ' LMCK@M ' C " ' MM ' DL ' .
" 002 ' " 00(-' E '165 ' ' ; ' E ' F '-'5(90 ' ; ' E ' F6(1-2 '
F #-' L902 ' M ' 1 ' '8<' L902 ' R22 1

3 B 4 B ? M ' I ' > ' ; L L4 ? @ ' IA " @F=4 ' C " '
' C =81- F L ' D ; ' I ' ' .
E 2 ' J '-2 ' F ' 11(8 ' M(5 ' ' , ' 0(' 2-- ' > 2 '6 2 '
L83 822 83 ' R2 '

LA@? @ , " AF ? KAT ' ; L L4 ? @ ' R ' D ; ' R ' ' , .
; (<' , 37 ' 4-2J ' < ' A256 ' 9 '- (8 ' (' ; '8<

3 < B ' I ' > ' $ m ' C M ' M 42 ' >7 M ' DC ' .
>7 1 (6(3 '

7 % K ' ' # ' % ' 4 $! % ' ' I ' # ' ' ' K ' 7
L3 #-' 4 ' b # ,' !QCI " ' 4- '-78' 8 ' ; (<

0#' 5 ,' ' + Y# ,' #' 0#' * " 6 #' # ' 4 , "6 ,0' 0#' (+6

; = 4 T ' ? I ' F ? @ T A = E K T ? A 4

R "; > ? ; L ' 4 = A ' 4 > 7 @ F L A ' : F E ' D 4 ' R .
L 8 3 7 1 7 ' , 1 - (' Q , ' E
< 3 / 4 3 @ ' 3 ? & G ' & ' N / ' 4 ' ' <
F 2 ' 9 5 1 ' @ ' e ##Y % 6 , ' ' o ' T 2 ' 5 (-- " ' E
R " ; T ? @ ' 4 = A ' ? 4 L > ' D R .
" 2 3 7 - 9 2 8 -
R " A M ' " M ? ; > ' , K 4 ' R = ; ; = " C ' M = -- ' ; ; M ' D " ' R ' R .
F 9 0 2 ' 8 ' 8 < ' e ' A 5 7 ' < #] ' £ ' M ' 9 ' ' I ((- 2 ' 4 ' 9 2 6 '
I (< ' (7 8 ' G ' 5 ' M ' < ' £ G 2 2 8 2 ' A (0 2 -
, (I -7 ' ' (8 1 (8 ' # 2 8 ₱ ' ; (< 3 2 ' T 7 (9 ' 1 ' > ' 8 - (9 9 2
R " A M ' > A ? I ' , " A A X ' C " A 4 , " ; ; C " ' I A 4 ' M 4 5
D , ' C ' R ' .
E ' 5 - 2 (6 (3 ' £ ₲ E 2 2 6 2 ' C 6 2 1 ' (12#7 ' F (7 8 ' 1 2 < 9
8 ' 8 < ' 6 1 ' M 2 E ' ' I 8 3 ' D J ' # 6 . ' o ' , & 0 "
R " A M ' > A ? I ' " C L 4 ' M 4 2 ' ; ; M ' D ' R .
, 2 0 ' - ' @ ' - ' 6 1 9 ' > 1 5 7 (6 (3
R " A M ' C " A X ' " ' D C 1 ' A - 9 # 7 2 ' R ' < . ' D C ' " ' R *
;
R " A M ' A ? 2 E E : ' T ' M L ' F ? K A ? X ' " C ' D A ' ' F ' R .
F 6 9 ' - 2 ' 8 < ' F 6 9 ' - (6 (3 ' H
R " A @ L A ' I A " @ : ' $ I ' D I ' R .
4 6 ' ' £
R " E A L ' A L ' L M C ? @ M ' F E ' F ? ' C " ' M M ' M F ;
3 ' <
E (' - ' ? ' ' 4 7 # '] ' ' 0 # 5) # ' ' * # ' 0
R " A A L @ ' A L ' I A L M L A = F : ' L M R " A M ' C " ' E M ' I 4 "
D I ' L ' R .
M 2 < 5 ' - (8 ' ; 2 5 - (8 ' ; 2 < - (8 ' ' ; 2 5 - (' ; - ' 8 ' ; - K 3 '
' > ' 2 ' E ((' (F (9 9 (8
R " T L A , ? K 4 L ' C " ? A G L @ L A " ; " C L 4 ' [' <
F ' 9 2 " ? 0 1 5 ' '] ' ' > 7 (- (3 ' # 7 ' . 6 ,
R " T 4 ? @ ' " ; I A L M ' L M R " A M ' T ' , ? C " 4 ' D " ' L ' T ' R .
, (1 2 A ' 5 8 3 ' . ' , 8 - 8 3
R " T 4 ? @ ' " A T ' , K A ' D " ' R .
L W ' 9 8 ' - (8 I ' ' £
R " T A ? @ ' 4 = A ' F , " A ; L 4 ' C ? ? A L ' : F C G ' F E ' D F ' C ' R .
G (< (8 ' G 2 8 2 ' 6 ' 2 1 ' 6 2 9 ' £ ₲ 4 2 # 6 5 7 2 ' 7 7 2 , (6 '
= 8 5 6 8 (9 2 - 2 ' C ' 3 8 2 - (3 ' # 7 ' C ' 3 8 2 - (9 2 - 2

- ' = " A M ' K ; L 4 ' D .
9 < 2 < ' X 2 ' 1 ₱ R ' ' = 1 ' 0 2 6 6 " (' E ' ' ' ' 5 n 2 2 ' T 7 2 '
; 2 C ' p (8 ' ; (N ' " 9 0 (1 2 < 2 ' ; (2 - ' 2 ' 8 ' C ' 5 2 6 ' L - 2 8 8 2
: J 2 - ' @ 2 < ' 4 ' 8 ' ' X 2 9 2 8
" ' 0 ' 4 # '] ' " 1 ' ' < 9 9 8 -] ' ' 1 ' ' L 6 ' , 2 ' 8 '
3 ' ' " R .
R " ; M 4 T L = @ > A ? I ' F , " A ; L 4 ' C " ' M ; 6 - - ' > 7 M ' D F ' R ' .
" 3 (1 ' 0 # '] # # 6
(5 ' ' ' 7 ' 3 A < A ' & 3 < ? ' & ' 3 ' & ' < '
" 2 3 8 '] ' ' F (8 1 - - (8 ' (" - 7 2 8 1 ' G 2 2 5 2 '] ' ' '
' ' @ C + ' ' 2 < (- ' ' ? 6 8 - 7 1 ' T 7 2 ('
(9 # 1 ' Q 2 8 (# 7 (8 ' D 8 ' E
< T 3 ' [& 3 / & ' [' < M
> (6 ' B ' - (8 ' (' ; 3 7 - ' A 2 ' 5 - (8 ' } - ' #
R " ; ' L A ' " C E 4 ' C " ' '
T 7 2 9 (5 7 2 9 1 -
R " ; : L A ' A L ' 7 ' R = ; ' = 4 T ? @ ' > 7 M ' M M ' D R ' < '
E ' 5 (8 ' ; 2 (8 ' < ' E 1 7 8 2 K ' , (' 5 2 ' F (- - (8 ' (7 8 ' L 7 (- '
(7 8 ' , (# 8 1 ' 4 ' 9 2 6 ' R 8 - 7 (# ' (7 8 ' D \ ` ` \ a b .
R " ; ' I A L M L A = F : ' ? 4 L > ' , > F 4 ' D I ' ' R .
I ((- 0 ' 6 6 ' ' ' ' ' ' ' £
R " ; ' ; I A L M ' A K 4 4 L ' ; ' ; M ' M F 6 5 ' > A 4 ' D " ' A ' R .
" 5 5 6 9 ' - B ' - (8
R " ; ; " F L ' " ; I A L M ' A K 4 4 L ' ; ' ; M ' M F 6 5 ' > A 4 ' D " ' A ' R .
D M ' C ' R .
" 6 2 W ' 8 < 2 ' ' = = ' ' 8 < ' = = = ' (' A 1 1 ' ; L 3 % # - ' 4 # '] ' '
' £ ' L (# 2 '] ' ' £ ' G 2 1 ' G (5 7 ' 6 5 ('
; (0 ' 8 (A P (4 - (1 ' ; (1 C 2 : (' @ 7 6 1 9 ' A 1 1 ' ' , 1 ('
' . ' 4 7 8 ' 6 (F (8 -
R " ; ; " F L ' > A ? 1 ' A 4 ' D L < 6 6 . ' I ; 4 ' D A ' R .
F ' - - 6 2 ' . ' , (1 2 ' £ ₲ > 3 ' . ' 4 7 2 2 # ' £ '
D ' " ' # X
C ' 8 2

R " " ; 4 ' > A ? 1 ' ? ' " @ @ L 4 ' M 9 E A 6 A ' " @ ' M L A ' > 7 M
D ' M ' ' M ' R .
F (8 < 2 8 1 ' - (8 ' ? ' 1 2 1
D ; ' " ' R .
< A A 3 8 ' ; 6 A K T F ? ; ' ; " K A L @ F L ' " ' F E ' F = L ' ; ; M
; 7 ' 1 " ' ' . ' T 0 2 - ' £
< A / < B 4 ' / & ? 3 ' & ' / ' <
F (8 2 ' 8 5 8 3 ' £
R " G L A ' , " A $; \ * R T > A 4 ' D ' , R .
> 6 ' 8 - 1 ' (" .
0 # ' 5 ' , 0 ' + Y # ' ' # 0 # * " 6 # ' ' # ' ' , " 6 ' 0 ' 0 # (+6

; = 4 T ' ? ' F ? @ T A = E K T ? A 4

R 4 P M M ' F , " A ; L 4 ' E L A T = L I G ' ' D F ' E ' R .
C 6 6 1 - (8 2 G - ' C (5 2 8 2
R E M C ? A L ' I A L = L A = F : ' N ' <
E (< 8 ' L ' ' C N (8 ' F 7 ' 6 2 ' A 0 (- ' T 7 N (< 6 2 ' R 7 1 - 6 2
R L : E X ' T , L ' , ? , ' ; " M X ' D ' R ' .
4 3 8 2 1 '
< 3 4 ? / 3 ' 3 ' [? & G / ' A A ' [' <
A 2 1 2 ' (7 ' 8 8 ' 5 (0 ' Y 2 5 7 ' ' 7 ' S ' E '
< 3 B ' G B N ' [& 3 / ' & ' [⇩ <] J
L < 5 ' - ? 8 ' 0 #
< 3 < B 4] ; k ! ; ' I A " @ F = 4 ' L M R " A M ' C = 8 1 - F L
D I ' L ' R 4 .
F (8 5 2 - 2
R L 4 T ' > A O I ' G L ? A G L ' 4 T L > , L @ ' C " ' M 4 5 ' I ; 4
D G ' 4 ' R .
A ' - (9 ' 5 2 ' 2 ' ' E
R L 4 T ? ; " : L > A ? > ' ? , @ ' : F ' - ; M ' M F ; D @ ? ' R .'
" 6 2 8 ' , " 6 6 2 3 ' 8 5 2 ' M O 8 5 - 2 ' 8 - 2 8 ' - (8 ' 6 - ' R ' &) #'
@ ' - ' 6 B ' - (8
R L 4 T ? @ ' L 4 4 = L ' L " = M ; " X ' D ' ; ' R .
" 7 ' : 8 3 ' " - 7 ' ' 8 ' ; 2 3 2 8 < ' G ' 6 ' T 7 2 A (6 ' G 2 8 2 '
2 2 ' ; ' 8 5 2 6 (- ' C ' 6 (' 4 ' T 7 (9 ' 1 ' C ' # ' R ' 6 - 2 ' C 2 7 8 '
> 2 5 2 ' 6 \ A (6 8 6 < T ' 0 6 2 ' T 7 2 ' T 1 - 8 ' R (6 ' 9 ' (8 '
L 1 5 7 2 8 0 ' 5 7
R , L " T ; L X ' k ' 6 ' E L @ " C = @ ' > 4 " ' D , ' E ' R .
: (8 < (8 '] ,
R , L L ; L A ' L C C " @ K L ; ' C " ' 3 ' < k
T 7 2 (# 7 R - 1
R , L L ; L A ' 3 7 ' % % ' I ' ' 3 3 ' $ ' ' # ' J .
R 2 0 1 - 2 ' M ' 8 2 6 ' E
L - 7 5 1 ' ' E ' R 6 6 5 O L , 0 E
R = ; ; " C 4 ' A L ' @ A X ' , L A E L A T C " ' D , ' , ' R .
F 7 (8 (6 (3 ' ' E 6 F ' , 6 B ' - (8
R = ; : " C 4 ' , L @ A X ' 4 C = T ' ' C M ' D ' 4 ' R - .
v O , ' 5 ' , ' + Y # ' # ' 0 E * " 6 I # ' + ' , " 6 ' , O ' Y # ' (+6

R ? ? M ' ; = L K T F ? ; ? @ L ; ' R = ; : " C ' M F ; ' I A 4 D F ' 8 ' < ' .
D R ' R (.
F ' 8 ' < ' ' = # 6 # ' 1 # 0 (
R ? M M E L A A X ' > A ? I ' G L O A G L ' L M R " A M ' M K - - ' , M
D G ' I ' R .
" 9 2 5 ' 8 ' ; - 2 ' - 2
< B B A B T ' 4 B A ' & 3 B ' A M / ' 4 ' & ' <
F (5 5 < ' ' G 2 3 ' 8 2 1 ' A ' 2 9 (1 # ((< ' ' 4 # ((B (' ' T # ' 8 (
1 2 9 2 1
R G ? M , L " M ' > A ? I ' G L A C " @ ' 4 = C 4 ' C " ' C M ' > A 4 D L < 8 .
D G ' 4 ' R .
' ' 1 - 5 ' M 1 2 ' 1 2 1
< B B A 4 B A / 3 ' 4 B & / ' ' <
> 6 ' W ' = (1 2 > # 2 ' - 2 ' ; 8 2 8 ' ' 8 < ' ; 8 2 8 ' C ' 8 ' 5 - 2 1 '
A ' 9 2 ' A (# 2 ' ' 8 < ' A (# 2 9 ' ' 8 3 ' 4 ' 5 ' ' < 4 ' 5 ' C ' 8 ' 5 - 2 '
4 ' 6 5 6 (- 7
R ? ? M R " A M ' " A T , K A ' 4 C = T ' ; L M ' I A 4 ' D " ' 4 ' R (.
M # 6 (< (5 1 ' =5 7 - 7 (1 ' ' 1 ' =3 ' 8 (< (7 ' ?1 - ' 5 (< 2 # 1 '
? J 2 8 ' 4 ' A 5 7 9 < ' > ' 6 ' 2 (1 # (8 < 6 1 ' >6 2 1 (1 ' 1 ' >- 2 ('
< ' # - 6 2 1 ' A 2 # - 6 2 1 ' , 1 - (' ' ' E ' 8 < ' e # # ' h o # ' ,
R ? ? M R " A M ' , ? A " F L ' E ? ; = @ $ E A ? : L ' I G 4 ' I A 4
D , ' E ' R (.
" ' 3 ' 1 1 B ' - ' ; ' ; ' A ' M 2 5 7 2 8 ' L ' , ' : ' (8 ' M 2 1 9 ' 2 1 - ' @ ' ;
G ' < ' ; ' ; ' ; ' < 8 3 2 ' R ' ; ' ; 5 ' 8 ' 4 ' R 6 ' 9 ' L ' ;
; (8 1 < ' 6 2 ' R 6 6 ' 9 ' ; 2 K ' 4 ' F 7 ' 6 2 1 ' C 6 6 2 ' , 3 7
R ? ? ; 4 L X ' > A ? I ' T , L ? M ? A L ' 4 " ; = 4 E K A X ' ; ; M ' D T ' 4 ' R .
C (8 (2 ' M (5 - 8 2
R ? 4 @ K C ' A " ; ' > ' , ' @ = F , ? ; 4 ? @ ' D A ' @ ' R ; +
" ' 0 2 1 n 2 '
R A = G , ' T ' , ? @ ' F " A A ? ; ; ' M " =M 4 ? @ ' ; D F ' M ' R .
E 6 < 8 3 ' 4 (5 2 - ' L # ' * ' # ' I 2 8 < 6 ' 4 (5 2 - 2 1 ' L # '
* # ' ; ' ; ' 0 (' ; 2 3 1 6 ' - (8 ' L # ' * ' # ' ; ' 4 - 2 1 ' 8 < ; (5 g
(- 1 ' L # ' * ' # ' ; ' T ' < 2 K 8 (8 1 ' L # ' * # ' ,
R A = G , T F E " A ; L 4 T , L $ M $ A E ' , " G E L A G ' ; ; M ' D F ' , ' R .
T (1 - (' = #
R A = G , T " M " @ = L ; ' C M ' A ' < '
' @ 2 # ' 6 ' E
R A = G , T ' ; R = 4 ' < ' '
' < > (6 - ' 9 8 3
< B N N ' ; ' ' k ' 6 ' A ? & & B A ' " " & "
D , M R .
> 9 (1 2 ' ; 2 ' 3 2
< B B A ' > ' $ ' ; k ' / ' 3 3 @ ' " & "
D L ' R (.
L 3 # - ' 4 # ' .

; " ? > E T ? @ 4 = = - ' ? , @ : , ? Q , " M ; , - ' D : ; .
I ' '3 -' ' I - B (' ' , ((< ' (' " '6 (8 ' ; (< ' T 232 - - 7 ('
" < 8 '6

; " K A = L @ ? L ' A 2 , T ' A L ' R 6 K 6 " C ' M . . ' ; ; = . ' 3 ' ; .
E ((1 ' , 7 66 # 1

; " X " A = Q ' G L ? A G L ' 4 ? C L 4 ' D G 4 ; .
: 228 ' G ' 4 ' ; 8 - (8 ' R 66 ' 9 ' ' 9 21

; L " F , ' " A , - A L A " @ F 4 C " ' D " ' I ; .' ' '
457 ((61 ' " 157 ' 8 ' A ? 32 ' F 7 57 262 ' , 28 ' ' K < ' 6 ' , 57 ? 6 ' 1 ' '
R ' 8 62 - 2 ' R 66 ' 9 ' ' 66 ' 9 ' (' R 27 ' 9

3 3 < 3 ' * ' / ' < ? c M / d ' D R 6 R .
M ' 67 # 81 2 ' A ' n 211 ' ('] 8 ' E ' 7 ' < ' 4 ' ' 4 ' < " 7 9 ' <
: 7 ' 8 ' 4

; L G G L ' , L ' " C L 4 ' C " ' > M ' D '
F # 8 5 ; 1 ' ' ; k (T 1 Ba ' ' 6285 4 '
: : ' B ' 4 ? & G 4 3 @ ' D A ' K ' ; .
M 20 11 ' ' 4 - ' 11 ' A 57 ' <

; L , C " @ @ ' R " = T L A ' C M ' D R ' ; .
F 28 - ' 6 " 9 2 5 ' ' . 0 # " ' ' C 2 W 5 (' . # '] , ' ; '
E ' T # 6 - 251 '

3 / 3 ' # ' % ' & ? @ ' & ' & A ' & G ' D A ' C ' ; .
> 3 9

; L T , " E X ' A A ? I ' R ' A ' I 4 " ' D R ' A ' ; .
" 57 - 25 - 2 ' o #, I 6 # ' ' e 0 ' ' 1 # ' E ' # - 1 - 2 ' '
E B ' 8 - 82 ' " - ' M 21 38

3 3 @ ' " ' ; ' ! ; ' $: ' : ' '
LW --0 - (8 ' C 5 F 66 (57 ' 4 ' ' 921 ' 4 - ' J 2 A ' 47 ' R ' 9 ' '
j # ' ' 4 (-7 ' R ' 6 | 1 '] , ' ' 5 - (' '] ,

3 < 3 / ' G ' > ' 7 ! 7 ' # @ $ ' I 6 F ' > ; ' ' # '
" 52 - 6282 ' ' G ' 1 ' 4 6 ! 6 # ' ' ' 6 37 - 83 ' b ' ' e ,

; L R = 4 ' F , " A ; - ? @ ' T 6 ? C " 4 ' > 7 * ' +F ' T ' ; .
=81 ' 852 ' ; ' E

; L J i ' R = ; ; = " C ' A ' I ' ' # ' > 7 (' D J ' > '
C ' 17 ' 66 ' (77

; E R , ? R = T 4 F , ' K ; = K 4 ' C " ' A 7 M ' ' K
? 61 '

; = " 4 ' A L ' ? , @ ' " C L 4 ' C " ' D ' ' ; .
M (66 832 ' : 5 - - 262 ' E ' (8 ' (8 ' M ' 8328 ' (12 # 7 ' A 2 157 '
I ' 88 , ' ' Rk < ' R 66 ' 9 ' G 2 (32

; = G , T I ? O T ' T , ? C " 4 ' EL ; = + ' C = 71 ; F L ' C = - 1 - C 220 L
D T ' E ' ; .
A 2 3 | ' - 73

; = @ F ? ; @ ' T , L ' A = G , T ' A L ' T , L ' > ? A M ' E 4 , ? A ' ? I ' D L < J ' <'
; 22 ' , 5 1 . ' D L ' ; ' , .
= 815 # - (81 ' e ## Y ' ' E

= @ > 4 " X ' A A ? I ' T , ? C " 4 ' C " AT = A ' L ; > ' # M ' D T ' C ' ; .
" n 8 ' 1 ' T 7 ? 9 ' 1 ' ' G 2 1 (8 ' ' E ' ; (66 ' <1 ' ' ; - 72 '
C ' - 8 ' ' ; - 72 ' 81 ' ' ? 55 ' 9 ' R 6 : ' 7 ' (' ' > 6 9 (- 7 ' E 2 - 7 28 '
! ' E ' ' T 7 (9 ' 1 ' k ' : 29 # 1

666 M 4 " X ' >A ? I ' R " ; ; " F L ' C " AT = @ ' C " ' M ; - K ' ; ; M '
D R C ; .'
= 815 # - (81 ' = ' ; ' E

; = @ M 4 " X ' R = ; ; = " C ' " ; L Q " @ M L A ' C " ' : ? ' > ' M ; '
I 4 " ' D R ' " ' ; .
> 252 < 2852 ' ' E

A " ' ' % K + ' ' # ' % ' N 5 ' F ' ' M
C ' 6 - ' ' 7

; = > 4 L T T ' , ' F " ; M R L ; ; ' D F ' A .
" < ' ' " 3 ' ' a ' F 2 6 (8 ' ' E ' F ((6 2
/ 3 ' [B / 3 G 4 ' [T / B ' & ' N / ' [' [' '
C 52 - (Y ('
3 A 3 ' ' 7 ' 4 A ' N 3 A 3 T ' & ' A '
A ' D A ' I ' ; .
21 - 1 ' ' E

; = T T ; L ? , @ ' >A ? I ' , L @ AX ' , " A LX ' C " ' C E '
I A F 4 D L < 8 . ' I A 4 D L < 68 . ' D , ' , ' ; .
C 2 < 5 ' 6 1 # <2852 ' D 8 ' E ' 4 5 <2

; ? F , ' F , " A ; L 4 ' 4 T L R " AT ' M F ; ' ; ; M ' D F ' 4 ' ; .
57 ' - ' ' 8 < F 7 ' - 21

; ? F , LL ' ? I ' G ? R A = L ' T , L ' A = G , T ' , ? @ ' ; ? AM ' D L < 9 8 <'
A (02 - 1 (8 . ' : F ' ; ; M ' D L ' A .
, ' 66 ' 9 ' , 28

; ? MGL ' , ? @ ' , L @ AX ' F " E ? T ' D , ' F ' ; .'
G ' 66 ' - 8 ' " 602 -

B 3 < { ' 4 3 3 ' & 4 ' [& 3 ; ' & ' 4 ' ' M
C ' 9 (8 < 21

; ? @ G I L ; ; ? R ' R 6 ; = " " C ' >= TT ' >A L E ; L ' D R ' > ' > ' ; .
A 57 ' <1 # 8 ' , 28 ' , (01 (8
B " B ' I ' > ' " KGK 4 TL ' D " ' ; (.
E 6 (1 ' F (88 - # ' (' ' F 7 ' 9 # ' 382 ' F 7 <- K (8 ' T (21 ' F (8 - 1 ' (' '
2 9 ' 8 < (1 '
' # % ' I ' > ' 4 ' ! 5 ' % ' 4 ' '
T 37 - ' j 6 # ' !

; ? L ' >A ? I ' " KGK 4 TK 4 ' LMR " AM ' , ? KG , ' C " ' M 45 '
> A 4 ' D " ' L ' , ' ; .'
L 6 ' 1 - 5 - ' I 85 - (8 ' 16 ,' ! ' 4 # ' : 9 ' -21 ' =8 8 -21 9 ' 6
F ' 65 6 1 ' ' ' - (81 ' F ' 65 6 ' ?

; ? R ' " ; ELAT ' >LTLA ' D " ' > ' ; (.
6 " 0 ' < (' ' E

; ? R ' 4 = M @ LX ' " C L 4 ' C " ' D 4 ' ' ; .
F 7 57 66 ; (< ' L ' 8 < (6 # 7

; ? R L ' I A " @ F = 4 ' C " @ ; LX ' D I ' C ' ; .
\ A ' 832 8 < 2

? A ' ' 7 ' , L @ AX ' A = F , " AM 4 ' C " ' M M ' D , ' A ' ; .
> 2 1 (8 ' ; ' & E

; KF " 4 ' LMR " AM ' LAA " ; ; ' DL ' ' ; .
" 1 - 28 ' ' 82 ' ' ; ' 90 ' F 7 ' 621

; , F , " = AL ' " F , = ; ; L ' D " ' ; .
> ' # ' 5 '] , ' * ! , ,

; KF : R " ; MT ' >A ? I ' I A = LMA = F , ' >0 M ' DI ' ; .
M ' 769 ' 9 '

; KG " AM ' ; " MX ' DI ' ; ' ; .
E - 17 ' L 9 # 2 ' E ' 857 ' ' E (9 ' ' : ' 8 (' ' : ' - ' 3 9 ' ' @ ' 1 '
1 ' ' J ' ' @ 32 ' ' ' A 7 (< 21 ' F 25 6 ' 4 ((- (' ' Y ' 8 '

; K @ GL ' >A ? I ' GL ? AG ' >7 M ' DG ' ; .
" 6 ' 6 ' C ' 8 ' 5 - 2 ' F (' 6 T ' ' ' I 26 ' e ,# 6, ' ' G ' 1 ' 4 6 '
! 6 # ' == ' ' 4 7.7 5 ' " 5 <

; K 4 , = @ GT ? @ ' 4 = A ' I A " @ : ; = @ ' C " ' DI ' ; .
; 2 ' ' L < J ' <

; KTY ? R ' F ? K @ T ' M ; 6 - - ' >7 M ' D ; .
E (729 ' '] , ' ' 8 < = # 6 # ' ' FB257 ' ' , 11 - 21 ' ' 2 (92 '
(' > ' 3 2 ' >(<20 ' < ' G2 (32 ' (' ' > ' 3 2 ' YB ' ' (78

; X " ; ; ' T , L ' A = G , T ' , ? @ ' 4 = A ' " ; I A L M ' F ? CX @ ' : F E '
D " ' F ' ; .
" 0 < ' A ' 7 9 k 8 ' ' " 37 ' 8 1 - ' 8 '] ,

; X " ; ; ' 4 = A ' F , " A ; L 4 ' " C L 4 ' : F 4 = ' F L ' ; ; M ' DF ' ' ; .
E 7k ' ; ' ' ' ' 9 ' 1 ' ' ' , 8 < (1 - ' 8 ' ; - 2 ' - 2 ' ' : ' 7 ' ' C (' <'
< ' k - ' T 864 ' M ' 1

; XML : : LA ' A = F , " AM ' I A 4 ' I G 4 ' I Y 4 ' DA ' ; .
F 7 8 ' ' 1 6 ' ' Y ((6 (3 5 ' 6 M 1 - 0 - (8 ' "8 - 26 (# 2 ' E ' 6 (' '
F ' - ' ' I (W ' ' ; 29 ' ' >(625 ' - ' ' A 2 8 < 22 ' ' 4n k ' ' 8 < (-72 '
B ((6 (3 5 ' 6 ' - 5621

C " F " ; = 4 TLA ' #A ? I ' " ; LQ " @ MLA ' C " ' C M ' ; ; M '
M 45 ' I , 4 ' &
> ' 69 1 - ' >7 28 (6 (3 ' >7 1 (38 (9 ' 4 - 39 ' - B ' - (8

C " F " ; = 4 TLA ' A ? ELAT ' " ; LQ " @ MLA ' 4 TLR " AT ' C " ' I 4 "
DA ' " ' 4 ' C .' ' ' '
> ' 621 - 82 ' ' E ' "5 2 ' E 2 - 76 27 29 ' ' F ' #2 8 ' 9 ' '
M ' 9 ' 15 1 ' ' M 2 ' < i 2 " ' ' , 20 (8 ' ' 4 ' 9 ' ' ' ' 4 (< (9 ' ' 8 <
G (9 (' 7 ' d 5 '

& + 6 ' ' ' $ ' ' M .
E ' ' (78 ' G (6 <19 - 7 ' ?6 2 ' <781 (8 ' 4 ' 9 26 ' > - '
R 67 ' 9

C 5 " K ; " X ' >A ? I ' " ; LQ " @ MLA . ' C " ' D " ' C 5 " .
h ## ' ' E '

C " F " K ; " X ' GL ? AGL ' F " C >EL ; ; ' C " ' DG ' F ' C .
G (J 2 ' (78 '

C " F " K ; " X ' R = ; ; = " C ' , LAA = F ; ' C " ' DR ' , ' C .
C (- (8 ' ; ' J 1 ' (' ' ' '

C " F " K ; = I IL ' C " Q ' " AT , KA ' DC ' C .
G ' 8 - 7T ' 4 7 ' ' 4 719

C " FF ? ; ; ' MKG " ; M ' 4 KT , LA ; " @ M ' C " ' ; ; M ' DM ' 4 ' C .
= 9 # 211 (8 19 ' '

& ' I ' ! $ ' ; ' > : ; ' I ' & 0
G ' 11 ' ' 8 < G ' 136 ' 8 < 1 ' A 2 ' # 83 ' ' T 7 217 83

C ' 2F ? AC " F ' 4 = A ' R = ; ; = " C ' E " AT ' - R ' &
4 9 (8 ' 4 ' (78

C F ? AC = F : R = ; ; = " C ' 4 XC = @ GT ? @ ' C ") ' ; ; M ' DR ' 4 ' C .
? 5F 62 2

C " FM ? @ " ; M ' >A ? I ' MK @ F " @ ' E ; " F : ' C " ' M M ' A ' ' & U
C ' 7 (9 92 < ' 8 ' =81 - - - (81 ' ' C ' 7 (9 92 < ' 8 ' ; ' J ' ' F ' < ' '
M 2 17 ' M ' 8 ' ' C - ' ' A ' 9 ' < ' 8 ' ' d 5

0 # ' 5] ,' ' + Y # ,' # ' 0 # * " ' # # ' ' , "6 ,0 ' 0 # (+6

C " FM ? @ " ; M ' " C L 4 ' C " ' ; ; M ' D ' C M .
F7 '6 92 P ' G2(32

C " FM ? @ " ; M ' ? , @ ' [' &
I ' ' ; ' E

C '5M ? @ " ; M ' >A ? I ' R = ; ; = " C ' ; ; M ' < ' & A M
T 62 ' (78 ' '8' EJ 28 ' C ' - 4 ' R '17 83-(8 ' G2(32

C " FM ? @ L ; ; ' >A ? I ' " AT , KA ' " @T , ? @X ' C " ' >7 M
D " ' " ' C .
: '6 <'1'

& AB ' ; ! ' ' ? , @ ' F E ' ; ; M ' D ' C .
> (-25-('-2 ' 4(2 2 - ' 4#72 2 ' (' =8 6 2852' ' 4 B2 ' 8-

& AB ? " ' (! ! $ ' & ' < ' & A
, '66 5 8 '- (8 ' , 8 ? 6 ' 4 06 8 8 '6 426 ' 4 3321- (8 '
T '82

C 5 L R " @ ' ? , @ ' I A G 4 ' I A C 2- 4 ' D ' C 5 L .
T2'

C " FI " MX @ ' AL ' M [G " ; M ' C " ' A ' &
E(1-(8 ' T7(9 '1 ' F ' 91 ' (78 ' F ' 9#02 66 ' (78 ' C 5 ; 2(< '
F7 '6 92 1 ' T7(9 '1 '; '! . ' F(85('822 ' F <28 ' " 62W ' 8<2 '
LW5(888 5 '- (8 ' ; 2 37-(8 ' A(02 -' ; ' E ' C26 K2 '
" 8< 2J ' d5 '

C " FI " A ; " @ L ' ? , @ ' D ' C 5 I .
M ' 9 28 ' I '-72

C " F : " X ' ? , @ ' 4T [AG4 ? @ ' C " ' ; ; M ' I A 4 ' D= ' 4 ' C .
L +6 <

C 5G= I I LAT ' >A ? I ' " AT , KA ' FK4 , C " @ ' C " ' >7 M ' M M
D " ' F ' C 5G .
F7 57 ' , 1-(' ; I ' E ' G ' L 120 1 ' $e ' F '21 ' 2 ' ' > (#72-' ; '
E ' G ' 4(F '-21 ' (06 0 '] , E ' ; ' E ' G ' 4(B(928 ' ; '
E ' T72(<(2-' ; ' E

& T3 A 4 ' ? , @ ' G , " X ' C M ' X F > +L<--- * ' K ; M '
I A 4 DL< 8 . ' I A 4 ' D ' G ' C .
Ln 6 0 9 ' , 2 ' 83 ' , 26 9 7(6-B ' 4622#' 4 9 266 ' T '1-2 ' '
T(57 ' '15 6 ' ' 4 1-2 6 '] , ' !' 5 ,)# G ' 1 (8 ' (52

C 5 : LAA ? R ' A ? @ " ; M ' E -K @ ; LL 4 ' C " ' M ; --' DA ' A ' C 5 : .
M2 2 ' T7(9 '1 '; ' E ' C ' # 26 '- ' F(8- (2 1 ' >' 8 '11 1 '
>6 ' 1

C " F : LX ' T , L ' LAX ' AL ' F " @ ? @ ' , ' E ' ? 4 E ' D , ' E ' C .
4 '5 2< ' , 2 ' -

C " F : =@T ? 4 , ' AL ' A ? ELAT ' C " ' MM ' DA ' &
" 8-7 (#(9 (#7 19 ' " I *(6(32- 51 ' " #(-72(1 1 '; ' . ' M(39 ' '
T72 19 ' T72(6(3

C ; " F , ; " @ ' A ? ELAT ' - A 4 ' eA ' \ = N
M '3(8 6 ' ; ' E ' =05 1-' D J ' E ' C ' I6 ' ; ' E

C2; L " @ ' @ ? AC " @ ' C " ' DA ' C .
4 '5 ' ; '83 '32 ' 4 '5 ' ; -2 '- 2 ' L#7 '29 ' 4 - 1 ' =1 ' '5 '
(' " 8- (57 ' '5(0 ' (' L<211 ' ' ' (177 '-024- 6 -2 ' >7 6(W28 1 '
4-2#728 ' E ' ' 4 <7 ' 62 d5

C ; L @@ " @ ' ? , @ ' ILAGK44 ? @ ' D ' ! ' C ; .
R2 J(6 ' ; ' E

C " FC " , ? @ ' C " ? A ' >LAFX ' " ; LQ " @MLA ' A " ' M 45 '
I A 4 ' D> " C .
" 6320 ' 5 ' I(91 ' F ' 62 ' " -7 ' F(908 '-('6 " 8 '6 11

C 5C " 4TLA ' ? , @ ' E " G , ' ; ; M ' D ' A ' C 5C .
G ' 26< ' ' 921 ' " 0 ' 9

C C =; ; " @ ' R " ; TLA ' GL ? AGL ' C = C L ' I F 4 ' DR ' G ' C .
F ' 0(8< 9 ' L625- (5729 1- ' L625- (92- ' 66 3 '
G '#7 -2 ' ; ' E

C " FC ? AA " @ ' " ; LQ " @MLA ' : F ' C " ' D " ' C 5C .
L836 '8<' Q ' " 0 '& 6 ' b4 '5 6, #, ' DR ' ! E

C " FCK @@ ' F , " A ; L4 ' " ; LQ " @MLA ' C " ' C M ' I F 4
' ' & &
F(6(1 ' (' " 8 9 '61 ' (O# ,

C 5@ " KG , T ' ' " ' D ' " ' C 5@ .
F ' '32

C 5@ L= ; ; ' A ? @ " ; M ' ? , @ ' C " ' DA ' ' C .
" 1- '6 ' ' 5 # # ' =#" , ' $ M 83 ' I28 '81 ' G 98 '1- 51 '
6 " J8 ' T288 1 ' A '5n 2-1 ' L9 92- ' A(02 -' 47572 2 266 '
R K '9 ' 4-' (78 ' ?K 2 ' T(82 ' R(K2 ' '8< (-72 ' L836 17 '
'8< = 17 0 (3 '#7 21

C " F> , LA4 ? @ ' ? , @ ' C " ' C M ' C A F 4 ' [' &
=81 '8 - ' 4 # ' ; ' E ' >' '8('

C " FOKLL @ ' >A ? I ' " CL4 ' C A F ? ' D ' & ; '
' "8-7 ' W ' 2-2 8 ' ' 45 2852' ; ' E

C " G @K4 ' 4=A ' > , =; => ' D> ' C .
T2578 5 '6 L< 5 '- (8

C " , =; ; ? @ ' =FT ? A ' F , " A ; L4 ' D ' C .' !
F(92-' DC E ' G ' F (9(92' ; ' E ' ' I -2' ; ' E ' ! ' ?0(2 '
; ' E ' ' ?#7 562 <2' ; ' E ' G ' T (90(82' ' E ' G ' T 9#2-'
' E

C " =T ; " @M ' IALMLA=F : ' R = ; ; = " C ' C " ; ; M ' DI R C .
E '5-(8 ' ' L836 17' ; ' J '

C " =T ; " @M ' ? , @ ' " ; LQ " @MLA ' IK ; ; LA ' C " ' >4 "
D " ' " ' I ' C .
E '791 ' ' G (2 '4 ' G2(32' ' ; 8< ' 288

C " ; F ? ; C ' C " ?A ' @L= ; ; ' M 4 ? ' I A G 4 ' D@ ' C .
' T '5- 51

C " @ ; X ' >A ? I ' ? , @ ' C " TT , LR4 ' " C ' >7 M ' D ' C ' &
L836 17' ; -2 '- 2 ' ==

C " @@ ' " CL4 ' 4 " [C " ALY ' C " ' [' / ' &
C2W 5(' 4 # '] ,

C " @4 ? @ ' LMR " AM ' 3 ' &
E '8 #-5 ' ( )# = ' ' G ' E(8< ' ' F(9#' 8 ' ' M2028- 21 '
'8< M2028- 2 ' 4-(5 ' ' M 25-(1 ' ' 4-(5 1 ' '8< 47 ' 21

C " @4 ? @ ' " CL4 ' " ; LQ " @MLA ' D ' " ' C .
E (J 61 ' 45(-6 '8< ' e# " 0 ' ; ' E

C " ALTT ' A ? ELAT ' A " @K ; I ' C " ' DA ' A ' C .
> ' 2 ' ' A26 3 (8 ' &)# ' o# " ' ' A - '6 '

C " AG ? ; =? KT , ' >A ? I ' M " =M ' 4 " CKL ; ' C " ' M ; --
DM ' 4 ' C .
" W 9 ' ' % " '] , ' 4 0 # ' &# E ' ' L-7 (# ' ' '
I '- 9 -21 ' C '7(92-' C2 (2

C " A : EX ' 4=A ' %% 6 + ' : F = L ' M F ; ' < ' &
" 1- V ' (78 ' ' =8< '8' ; ' J

C " A : , " C ' 4=A ' F ; LCL @T4 ' A ? ELAT ' : F E ' ! i
DF ' A ' C .
>2 8 '] , ' ; ' E

C " AA=? TT ' F , " A ; L4 ' ? , @ ' EAKFL ' C " ' DF ' ' E ' C .
I ((-O '66 ' o6 " + ' ; ' E

C " A4ML @ ' ALG=@ " ; M ' G ? MIALX ' DA ' G ' C .
R 25 ' ; ' E

C " A4 , " ; ; ' AL ' @LRT ? @ ' , LAELAT ' C " ' >7 M ' D@ ' , ' C ' .
E '#-1-1

C " AT=@ ' R = ; ; = " C ' A ? ELAT ' DR ' A ' C .
@ ' 3 ' - (8

C " AY= " ; 4 ' 4=A ' IA " @ : ' T , ? C " 4 ' DI ' T ' C .
" 0(-' L<9(8< ' I ' ' ' " 32 ' G ' ' L ' ' M ' <2-' ' M 8 ' " "
; ! , E ' Y(6 '

C " 4 : L-L ' " ; IALM ' ?G ; L ' I 4 ' " ' D " '
= (

C " 4 : L ; X @L ' ? , @ ' @L = ; ' D ' @ ' C .
F(8- 83 ' D9 ' E

C " 4 ? @ ' ? T=4 ' TKIT ? @ ' D$ ' T ' C .
" 92 5 ' ' % 0 " ' ' . 0 # "

C " 44 ? @ ' >A ? > ' M " =M ' ; ; M ' DM ' &
C 6-(8 ' ; ' E

C " 44 ? @ ' >A ? I ' M " M ' ? ACL ' C " ' M 42 ' I A 4 ' D? ' C .
I 2J(1 ' 4 # ' ' 49(2 ' ; ' E

C " 4TLA4 ' C " QRL ; ; ' T ' C M ' I A 4 ' DC ' T ' C .
, (- 506-8 2 ' ; ' E

C " T , LRE ' >A ? I ' GL ? AGL ' E " L ; " AM ' C " < ' I A 4
D$ ' E ' C .
" 6320 ' ' , # ' ' @ 902

C " TT , LR4 ' >A ? I ' E , " @MLA ' " C ' L ; M ' M = -- ' M F L
Di ' C .
TJ ' 8 ' C '

C " TT , LR4 ' M ' ' DM ' ' C .
L836 17' F7 '8826 D ' E

C " KML ' F ? ; ? @ L ; ' I LMLA=F ' @ " TK4F , ' F E ' DI ' @ ' C .
F ' '6 ' ' F(815 #-(8 ' I '85(G2 9 '8 R ' ' D ' ! E ' C2-B '
@ '#(62(8 5 ' F ' 9#' 381 ' 4 ' ' 42< '8 ' ;+ #E ' 42 2<'
R22 1 ' R ' ' ; ' E 42 28 ' X2 ' 1 ' R ' ' ; ' E ' 4- '-23 ' '*
RS -7 '

C " K@4L ; L ' ; =LKT ?L ? @L ; ' IA " @F=4 ' A=F , " AM ' F C G
DI ' A ' C .
E ' 0 -' ' E '17 '6 ' ' E -6 1 ' ' M ' 02 ' ; ' E ' L B2 -'
; ' E ' G % 2 " ' ; ' EP ' 6 Y# ' ; ' E '

& ? / ' % 7 ' A ' B ' & M
F60 1 ' > ' 6 ' 2 '8 ' A(#1 ' IN6 5 28

& < 3 ' I ' > ' " ; ; L @ ' C " ' D " ' C J .
M289 ' ' . # '] , ' L836 '8< ' % " ,O ' & #' j '
M '826 '37 ' L<3 ' ' L<- ' < -72 ' L6<2 ' '8< (-72 ' " 836(4 'W('
0 (3 '#7 21

C "QRL ; ; ' "CL4' F ; LA : ' I A 4 ' D ' F ' C .
F'#66' ' "5- (8' D/ ' E' M '3 '9 ' I ' '<'

C "QRL ; ; ' R6 - ; = "C' , L@AX' " C =81 ; F L ' DR ' , ' &
M21- 5-(1

C "X? 4C=T , ' A=F , C?@M' >7 M ' DA ' C 4 .
C 3 '- (8' ;s ' E

CL" : =@ ' EKMGLTT ' DE ' C .
"69 (7 '<21' D! ' E' "69 (V <21' ; ' WE' C ((55(' ; ' E

CL" : =@ ' : "TL' " ' DC 1' E <32-]' C2' 8. ' D : ' " ' C .
C ((55(' ; ' E' T2- '8' 4 1

CL=: ; L ? , @ ' AL ' M ' DM ' C .
"<' 91 ' (78' F(57

&3 B ' 4 ? ' ' &
46 ' * "' |' U' * Y' \ , # <

CL@Y=E4 ' >A? I ' " ; ; "@ ' C " ' M M ' D" ' C .
I 22' F7 57' #' 45(-6'8< ' E'6' 45(-6'8<' F7 57' (' '
K8 -2<' I 22' F7 57' (' 45(-6'8<

&3 3 / / ' (% ' ML@@=4?@ ' " C ' >7 M ' D@ ' M ' C .
M' 1' 2 2 1(8' ' E' ,28 ' >'- 5 ' ' , (921-2'< '8<'
LW29#- (8' ; ' J1' ' C' 6'8<' @2J ' X (' ' E' ' >7 6 ## 82'
=16'8<1' eH " 0 ' ' * , ' ' K8 -2<' 4-'-21' 1 6 ' '
1

CLAA=; ; ' , ?@ ' IALMLA=F : ' "CL4' , "C== T$@ ' >7 M '
I G 4 D" 92 5'.' DI ' ' , ' C .
O<' 83

CLAL ' ? , @ ' T , L?M?AL ' A7 M ' L ; M ' M F L ' D ' T ' C .
= 2#' ' E

CEXAA ' >A? I ' LMK "AM ' A7 M) ' M ; -- ' ; ; M ' 3 &
>2 1 ' ' . # '] , ' ' >' -7 " ' 4 '- '#' " 7 '521' F 1' '
M' 1' ' @' 421' ' T <'-21' ' Q2 W21' '8< (-72' ' >2 1 '8' 0 (g
3 '#7 21

&3@3 ' I ' > ' G ? ' D>' C .
I 2857' ; '83 '32' ' E'6' > (28p'6 ; '83 '32' ' > (28p'6
; -2 '- 2' ; ' E

&3@3 ? T3 ' I ' > ' R = ; , LK ' >7 M ' DR ' C ' ; .
A(9 '852' ; '83 '321

: LX L ; ; ' CA4' " ; =FL ' ' &
E vJ8 83 ' L6 B '02-7' E' 2--

C=AET ' >A? I ' F "A ; ' T , L?M?A ' M T7 ' DF ' C .
G 23(' == ' ; ' -2 '8' F(85 61' ; (81' F(856 (' C' 0 3'
F(66(n ' (' ' @ 5'2' ' F(856 (' ' > 1' =Q ' >(11 ' F(66(n '
(' 4' < 5' ' F(856 (' T 28- ' F(856 (' K6- ' 9 (8- ' 8 19' '
' - 5'8' F(85 6' T72

C=TF , L ; ; ' , KG , ' D , ' .
G 0 '6-' ' ' E

C=TF , L ; ; ' ? , @ ' C " ; F? ; C ' D ' C ' C .
" 57(8' E(64' ' F62 1-72821' M2 : '8' ; 2 '3 2' G (-2' ' , ' 29 '
>26(#(8821 '8' R ' ' 4(6(8' T2 ' 9 ' ' ' ' d5

C=TF , L ; ; ' >LTLA ' F , " ; CLA4 ' M 42 ' ; ; M ' I Y 4 ' I A 4 '
D>' F ' C .
"8 9 '6' E (6(3 ' L (6 - (8' , 2 2< - ' , 0 < 19' ' ; 2' '
>' '1 - 19' ' 42W' 4#25 21' Y((6(3 5 '6' G ' <281' Y((6(3 5 '6'
@(9 2856 '- 2' d5

C= "AT ' 4T ' GL?AGL ' "F : 4?@ ' C M ' I A 4 ' D4W ' G ' C .
A'--6218' 2' ; ' E

C?II "TT ' AL ' "CL4 ' C " ' M M ' D ' CW .
G'6' - '81' L# 1-62' -(' -72' (78' L# 1-621' (' >7 62 9 (8h'
>7 6 ## '81' L# 1-62' -(' -72' A(9 '81' L# 1-62' -(' -72' T 9 (-7 '
I 1-' L# 1-62' -(' T 9 (-7 ' 425(8< L# 1- 2' -(' T - 1' L# 1-62' -(

C?@ : , ?K4E ' " ' @ ' D" ' @ ' C .
F(--(8' 7 ' E

C?@ : , ?K4L ' R = ; ; =" C ' F?4C?' DF ' C (.
, 8-' R ' , (69 '8' ; 237-(8' ; (<' ' C 66' 1' 4 ' ' L

C?@A?' M" =M' E=@@=@G ' C " ' M ; --' DM ' E ' C .
, (92 ' R06 ' I 2< 57' " 3 1-

C?@T"GKL ' >A? I ' IA"@F=4' F , "A ; L4 ' C " ' DI ' F ' C .
I 2857' A2 (6 - (8

C??AL ' "AT , KA ' R = ; ; =" C ' F ? ' C " ' D" ' R ' C .
C'8' =162' (

C??AL ' AL ' GL?AGL ' I??T ' DG ' I ' C ('
27('7

C??AL ' T , ? C "4 ' I ; 4 ' DT ' C (.
; '0 8-7

&B 3 UN B ' G BN ' N 3A ' ' & N
4#' 8' = "6 "#' ' E' '8< = # 6 #' ' E' 23"'
F' #V ; ' E

C?AI=; ; ' >A? I ' R = ; ; =" C ' A=F , "AM ' C " ' DR ' A ' C .
>(6 '8<' = # 6 #' @21-(' (0 # E' A 11 '8' ; -2 '- 2'
> 17 8' C 5 2J 5B ' "<' 9 ' T 3 28 2

C=MM ; LT?@' ? , @' , L@AX ' C " ' M ; -- ' MF ; ' I 4 "
D ' , ' C .
C2-'6 J (' . ' ; ' E'6' C(1' 5' . # ' ' E' ' C '6
M25('- (8' ' ' E' ' A'#7'26' ' A(92' 0#' . # ' (' '
; ' E' '8< (0 , ' o #' ; ' E'6' A(8< T(J2 1' '
45 6#- 2' ' E' ' T72'- 2' . # ' ; ' E' '8< 4 # ' '
E' ' R 28 ' 4 ' F7 1-(#72' ' d(

& 3 / ' K ' 6 ' " ; LQ "@MLA ' C " ' M 4 (' I A 4 ' D, ' " T , .
M ' 9 (8<

C6 "T? F , ' F , ^M? C=; LL ' DF ' C .
"62W'8<2' (' 42 ' ' E26 <2 ' G ' '17 '8 8' G 8< 6 57'
: ' '3r(32' ' A ' ' 57' ' ' 57 '|6' ?0 28F 57' , =' ' C 6(17'
?7 r8(7 ; ' ' @ 17 ' 42 '

C=; L ' , KG , ' A? ELAT ' A 45 ' - ; # ' , ' A ' I H
L836'8<' & , ' e# " 0 ' D=; ' = . ' G2(3 '#7 ' ?52'8'
'8<H?52'8(3 '#7 ' D ' E' >(6' ' A23 (81' ' E

C=; ; =G"@ ' >A? > ' GL?AGL ' E , ' DG ' C6 .
' 921' !#' ' # # E' <'1' :5' (-

C=; L=@GL@ ' " ; LQ "@MLA ' "@ ' C " ' M M ' D" ' 7 ' C .
F(81-'8- 8(#62

C L@L ' [K ' ; ' > : ; ' > ' ; ' D ' $!
L'--7T8' 2' ' E

C=; @LA ' A ' M ' DA ' M ' C .
M 2-2- 51' ; ' E

C=; T?@' " CL4 ' T " X ; LA ' C =84- F L ' D ' T ' C .
E(¡2

C=@F , =@ ' >A? > ' LMR " AM ' " L>ALM ' C " ' > Y A ' DL ' " ' C ' .
, < (92< 1'2' , < (B(' ' C2< 1' ' >(6 #' > (-(#6'19' '
> (-(B(' ' 42 #7(92< 1'2

C=@@4 ' L ; ; =4' , ? L ; ; ' C " ' DL ' , ' C .
A 11 '8' ; '83 '32' 45 -7 ' ' ' "6'8' ' F 8 82 ' ' 46' 1' '
46(2821' ' 4(01' ' d5

& B ' (! ! $ ' & ' A ' DR ' C .
M2 2 ' T7(9 '1' ; ' E' E <28' ' E' ' C 66' (78' 4- ' -

&B " ' G BN ' B < @' B@A ' A ' N / ' ' ' &
=81- 85- ' =8-266 32852' 8' "8 9 '61

C?A ; LX' ? I ' E ; " F : EKA@ ' T , L ' A=G , T ' , ?@ ' =4F?K@T
D C (.
E 2' L<9 8<' F(9-2' M'8-(8' M <2 (-

C?AA=4 ' A " X ' C " ' DA ' C (.
A'6J ' 1' e# # ' * , ' '8<' 1 ' b " 2

C?AA=4 ' R = ; ; =" C ' DR C (.
C '6M25('- (8' ; ' E

C?AA=4 ' R = ; ; =" C ' ?HF?@@?A ' ; ; M ' DR ' $ ' C .
?HF(88266' M'8 26

&B /3 ' I ' > ' /B ' A 3 ' & ' A ' D" ' M ' C (.
A2# 06 5'8' >' - ' R7 3' >' -

C?A4L ' ? , @ ' T ? AALX ' D ' T ' C (.
, (6921' ?6 2 ' R28<266

C?4F" ' >A? I ' G " LT " @? ' DG C (.
' 456 ' e# " 0 ' ' * , ' ; ' E

C?44' F , "A ; L4' LMR " AM ' M 45' DF ' y ' C .
>6'8-1' % "

:?TT ' IALMLA=F : ' R " ; : LA ' C M ' I A F > ' I A 4
DI ' R ' C (.
"#(#62W ' @2 '63 ' ' @2 '1-728 ' ' @2 (#'-7(6(3
>' '6 1 1

C?X@" ' L ' G ' ' I A G 4 ' DL ' G ' ' C .
F7 62'] , ' ' E

CKMGL ' GL?AGL ' >LAF= " ; ' I Y 4 ' DG ' > ' C .
"60 8(' =85 0'- (8' '8<' =85 0'-(1

C6 6A ' ? , @ ' " C ' ; ; M ' D ' C .
X(129 -2

CK=A ' A=F , "AM ' ' & ' M
>'-7(6(3 ' ; ' E

CK=A ' A?ELAT ' C " ' C M ' I A F > ' DA ' C .
E'5-2 (6(3 ' & 0 " '. , # ,

CK=A ' T , ? C "4 ' F C G ' C " ' ; ; M ' I A 4 DL< 8 . ' I A
' & +
F 562' ; ' E

0#' 5 ,' ' + Y# ,' #' 0#' * " 6 #' # ' ' , "6 ,0' 0#' (+6

, K=A , L " M ' >A ? I ' " CE4 ' ; ; M ' D x .
>'- (8' '8< F6 28-' D ' E

CK=A , L " M ' " CL4 ' I K ; ; " ET ? @ ' ; 6 M ' D ' I ' C .
ɵ0 ' ' E'

CK=A , L " M ' >A ? I ' ?, @' , L @A ' C " ' K 6. ' D ', ' C .
, 2326 '] #" # , ' ' % " G' <2 ' 6 4#

CK ; ; LA ' >A ? I ' " KGK4 ' >7 M ' D" ' C .
4 88 -21' ' E

$ + ' ' G ' > ' 7! ' K ! ' ! K ' I !_ ' K ' a E
4 ' 0 ' 2 ' 81

CK ; ; LA ' >A ? I ' R ' C " Q ' > 7 ' D R ' C ' C .
, '8<- 5 A ' 52i ' = ' = "6 "#,

CK ; ; =@GLA ' " CL4 ' E " 44 ' C " ' D '% ' C .
A 57 ' <' (' F 28(21- ' ' ' K1 2 '+ 1

CK@A? ' A ? ELAT ' ; " ' C A ' ; ; I E 4 DL< 8 .' +A ' C .
4-(8272832' ' 4-(-2' C (8 928-1' ' - 2<' >(-1

CK@A? L ' >A ? I ' , L@AX ' 4C=T , ' 6. 45 ' >7 ' D , ' 4 ' C .
C 8 83

CKA>, X ' 4=A ' 4 , =A ; LX ' I ? A4TLA ' I A F 4 ' D4 ' I ' C .
46 ' 37-2 7(12

CKAA " X ' " ; LQ " @MLA ' 4T=6 " AT ' ; ; M ' D " ' 4 ' C .
" + 2< 5-' ' . ' G29 ' , ' ' . ' ; ' 9#

& ? @ ' 4 ! ' & @ ' _ ' ' & ' ' &
L836 17' ; ' 83 '32' ' b

& ? @ ' / ' [& 3 /' ? " ? / ? /' 3 ' @ ' ; ; M ' M ; -- '
M F ; ' D ' " ' , ' C .
L836 17' ; ' 83 '32' D! ' E

CKAA " X ' 4=A ' ?, @ ' : F E ' I A 4 ' 81 ' C .
; ' 2

CKT, LA ' >A ? I ' A=F, " AM ' ' &
>' 8- 83' o# # ' : 6 0 ' e# ' . 6, ' 5 ' * ,0 '
: ,0 ' * ' # ,0 ' j ' #" ' o6 , , ' ' Y ' * #,

CXAL4 ' >A ? I ' ?, @' ; =@T ? @ ' C " ' D ' ' C .
F - 9 ' F # 1' ' E' P M(' 81' L# 1' =02 ' 81'
6(8 ' 81' > #7 (1' ' >26 ' 13 ' 81' ' 4 ' 6 ' -- 1' DF 8 4.' ' d5

@" =A@L ' >A ? I ' " ; LQ " @MLA ' C " ' D " ' @ .
F 2 ' - ' 8 49' ' 8<' T9<K5 ' 8 19

@" @4L@' IA=MT ? I ' a F ? ' + I ' @ .
G 2286 ' 8<' ' >(6 ' ' A23 (81' ' E'

@" 4 , ' AL ' " CL4 ' ? : LX ' C " ' D ' ? ' @ .
4 1-2 7((<1

@LA@4T ' >A ? I ' R " ; TLA ' >7 M ' DR ' @ .
F729 5 ' 6 " 5- (8

@L4E=TT ' " ; LQ " @MLA ' I 4 " ' '
G6 ' 11'] , ' !' 4 6! 6 #' ' E

@L =; ; L ' IA " @F=4' , L@AX ' C " ' I A 4 ' N ' 4 '
" 66(1' ' E' " -(9 ' C2- ' 66(3 ' #7 ' ' E

@L =; ; L A ? ; IL ' LK4T " FL ' F ? ' DL ' @ A .
@' #621'

@LRF ? CE ' 4=C ? @ ' ; ; M ' M 45 ' M F ; ' D4 ' @ .
" 1- (8(9 ' :#,)#' F(92-' L56 #- #P 6 ' - - <2' ; 37-'
R# ' C ((8' >6 ' 82-' 4(6 ' ' 4 1-2 9 ' Y(< ' 5 ' 6 ; 37-P d5

@LRC " @ ' >A ? I ' " ; ELAT ' , L@AX ' ; ; M ' M M ' D " ' , ' @ .
E ' #- 1-1' . #

@LRT ? @ ' >A ? I ' " ; IALM ' I A 4 ' D " ' @ .'
E 1-' <' F ' 8' P M(2' #' 362G ((12' G (12' , ' J '
, 2 (8' : -2 ' @ 37- 83 ' 62' ? 1# 2 ' >' - <32 ' >26 5 ' 8 ' A ' 28P
48 #2' 4 J ' 8' 6- 2' R 28' ' 8<' ' - 5621' (8' (-72 ' E <1

@=F , ? ; ? , @' D @ .
E 91 ' A(02 -'

@=F , ? ; 4 ? @ ' LMR " AM ' R=; ; =" C4 ' EXA ? @ C "
DL ' R ' E ' @ .
C ' 8<2 662' 4 ' (78

@=F , ? ; 4 ? @ ' >A ? I ' ?4L> , ' 4 , =L ; M ' C " ' M 45 ' + ' 4 ' @ .
K1 ' ' 6 2' ' R ' 321' ' R2 ' 6-7

@=F , ? ; 4 ? @ ' >A ? I ' ALX@? ; M ' " ; ; LX@L ' C " ' M ; --
DA ' " ' @ .
4 ' 0 ' 81' 4 19' ' 4 88 -21' D!8' E

! ' K ' 6 ' D , ' @ .
I 2857' ; ' 83 '32' ' E

@=F ? ; " X ' ?, @' GL ? AGL ' D ' G ' @ .
' ; 85(68 ' " 0 ' 7 ' 9' ' E

@=F ? ; ; ' 4=A ' R = ; ; =" C ' A ? ELAT4 ? @ ' ; ; M ' DR ' A ' @ 6 .
, ' 1 ' T7(9 ' 1' ; ' 2

@ ? ; ML : L ' >A ? I ' T , EMM ? A ' >7 M ' U% K ' @ '
: < ' 8' ' E' ' C (k66 ' k-' ' >' 76 ' T' ' >2 12#(6 1' ' E' '
42 9 -2' ; ' 83 ' 321

@ ? ALL@ ' >A ? I ' " M ? ; I ' G ? TT , " AM ' >7 M ' D " ' @ (.'
45 ' 8< 8 ' ' 8' ; ' 83 ' 321

@ ? AT , F ; = I I L ' T , L ' A=G , T' , ? @ ' ; ? AM ' D@ .
@2 J1#' #2 1 ' & 6 ' ! ' j #' , # , '

B B ' 4 3 /' 3 ! % ' A ' ' 3 '
F - 1 ' G2(32' R 66 ' 9

@ ? AT ? @ ' >A ? >' A=F , " AM ' DA ' @ .
L- '' ' E

? L ; 4@LA ' >A ? I ' , LAC " @@ ' C " ' >7 M ' D , ' $.
=-' 6 ' 8' ; -2 ' - 2' ' E' G' C 1- ' 6 ' > (28p ' 6 ' ; -2 ' - 2'
4 #

? : ^X ' T , ? C " 4 ' DT ' $.
E ' 1 2-' ?1 2

? ; MI=L ; M ' ?4=" , ' C " ' C A F 4 ' ; A F > ' M F ; ' D ' ? .
232-' ' 8 19

? ; 4 ? @ ' >A ? I ' K ; =K4' LC=; ' D ' L ' ? .
' 86 ' 8<

? C " @ ' >A ? I ' F , " A ; L4' R = ; ; =" C ' F , " MR=F : ' C " ' I 4 "
DF ' R ' 5 ' (.
L836 17'] , ' = ' == ' ==; ' = ' ' ' 8< =.

? H C L " A " ' AL ' LKGL@L ' (h q i ~ ' + 6 ' 3h ' ? H C Q
M ' -#9 ' 52 ' 2' ' E

B ! ' 3 !L # % K ' $ ' DC 1' K ' ' (H@2 .' ' B
' >25 7 ' 9 (78 ' >-2028<' ' > 26 ' -2 ' > (' > (5 ' -('
5'

B 3 ' I ' I ' B@/' B ' D " ' X ' ? .
2-(

B/ B ' I ' > ' EL@AXI " =AI=L ; M ; ; M M 42 I A 4 DL< 8 .
+ , I ? .
>' 6 ' 2(8-(6(3

B/ " BBA ' G BN ' 4 ' # ' % ' 7! ' $ ' #7 M ' D , ' ; ' (.
K8 -2< 4-' -21'] , ' ' E

B/ < A ' I ' > ' R = ; , L ; C ' M 45 ' ; ; M ' DR ' $.
L629 28-

? R L@ ' M ? KG ; " 4 ' DM ' $.
47 ## 83

? R L@ ' LMCK@M ' C E ' I A F 4 ' ; ; M ' M 42 ' DL ' ? .
" ##2 -< p - 1' ' , 2 8 ' P ; 883' P >2 -(8 - 1' ' 4 32 ' 4 # '
& # ' T(8- 66 - 1' ' 5(12' 2 81' ' 8< (- 2 ' ' - 5621' (8'
92< 5 ' 6 ' 8< ' 1 3 p ' 6 1 0 25-1

? R L@ ' 4=A ' A=F , " AM ' : F E ' DA ' ? .
? 28' ; (28B'

? R L@ ' 4=M@LX ' GL ? AGL ' C " ' D4 ' G ' $.
? <

> " GLT ' 4=A ' ? , @' A " , LAE ' E " AT ' : F ' D ' A ' > .'
E ' 8 1' 8< ' , ' 8 83 ' % " ,0 ' = '

G : % ' / 3G4 3 ' N / ' / ' G
>' 32-' 4 ' ' 9 21' 125- (8

G 3@ ' N 3A 3 T' G 4 G ' A ' N ' ' G
; 5 ' 8 ' >68-' -57' D 8' #' .

G " 3 ' / ' B 3 ' 4 @' " / ' N / ' ' 4 ' ' G
E ' 8 1' 8< ' E ' 8 83 ' e# #

> " ; C LA ' LMR " AM ' , L@AX ' C " ' DA ' , ' > .
I <(1' ' E' 6 , ' ' ' =08' : 7 ' 6< 8' ' E

#" ? K ' FL4 " AL ' ' G
4 28 ' ' ' E

> " #=; ; ? @ ' AL ' T , ? C " 4' ; L4 ; =L ' C " ' DT ' ; ' > .
E2K

> " A : LA ' T , L ' A=G , T' , ? @ ' F , " A ; L4' 4TK " AT ' ; ; M ' M F ;
DF ' 4 ' > .' H' '
>226 ' 4 ' A(02 -

G ' 5 ' ' " CL4 ' G ? AM ? @ ' M 42 ' I F 4 ' D ' G ' > .
;2 ' -72

> " A : LA ' R " ; TLA ' 4KT , LA ; " @M ' +R ' 4 ' > .
I

> " A : =@ ' GL ? AGL ' A ? ELAT ' F C G ' ; ; M ' DG ' A ' > .
F ' 8 ' <' '] , ' ! ' 1# # E' C ' 5<(8 ' 6<' 4 ' (78' " '
A7(<21' F25 6 ' o0 #,' * 0 !! *0 ,

>"E @4'I6-LMLE=F:'GX,LA'I A F 4 'I Y 4' DI'G'>.
"8'-(9'' E '8'. '6 L 2'. '' ,2'-'. ''
(8-1'! 8 (@2 (4'4 1-29 4 262-(8' 4 A'T22-7'
'8<(-72''8'-(9 5'6'-5621

>"A4?@4'R=;;="C'E"AF;"X'F L ';;M' DR'E'>.
A'6J' 1'5 L + 'o ' ,

>"4T?A oKMR=G' ?@'>7M' D;' '>.''
>'#75'], 'I I I{

>"TLA4?@' >A?I' "C^4' ";LQ"@MLA' C "' M M
D '"'>.
M2 -2 #8(9'' @ 902 1'E(('(

>"T?@' >A?I' M="AC=M' @? ;' C M' I A F>DL<8.
DM'@'>.
I2 p'' C2-'0(6 5'M 12'121'' @ - -(8

\G '[&3/'N /' ['G
I2'-72'D ' E

>"TT=4?@'AL '$ '5';;M' DC'>.
F'1' 0#8' =1''5'' L '19 1' ' E' G(- 1'' C'5' 6'''
C(2'4 'T7(-8'1

>"KL4'"@@"'F'>7M' D"'F'>.
E 062'L836 17

>"K;'";IALM'R";;=4'F=L' D"'R'>.
4 9

>"K;='AL=@,?;M' DA'>.
;~025 ' ' E

>"X@L'AL '"A@?;M',=;;'C "' D"',''>.
M2''8<M 90

>"X@L'LMR"AM' ?,@'C "' DL' '>.
G 2 '&8<L' 6

>"X@L' ?4L>,'IA"@:'C " 'C M 'I A F>' D 'I'>.
C2<5 82'], ' ' E'>6'3 2' ' E

>AL;L'>A?I'A?ELAT' DA'>.
E6'1-83' E(83' 47'-18 83

>L,"C'>A?I',L@AX'IA"@F=4'C " ';;M' D,'I'>.
A(92'. # '], ' ' E' " 3 1- 1';-'D ' E'
@2 (' @2 '' ?-7('C' 5 1'4'' >(6 0 1' ' E

>L@MLAL;EA?M,KA4T' "CL4'G' ' D'>E.
"<'9'A(02 -'' 7##28<'62' ,2##62J7 -2'' 472 '-(8' fC2
I 8- 2 E((5'12' F7' '' M21'' d5' >'J80 (83

G3 | 'G BN3//B '[B4 '& ' ['G
4(6

>LTLA4' ?,@'>K@@LTT'>7M'M M' D ''>'>L.
E'3<'<' L #7 '-21' ' E' , 66'7' :7(''0'<' ;'1''
@## ' T 3 1' d5

>LTLA4?@'>A?I'IALMLA=F:'C M '>7M' DI'>.
=81'8- '], 'o # #

>L A=L' R=;;="C' C"TT,LR' I;=@MLA4' M ;--' >7M'
' MF;' I A 4' DR'C'I'>.
"0 <(1'' L3 #-'. ' '. 0 # "'' > '9<' 4 8'' 0#
&# , '' R2 37-1''8<C2'1 21'. # '],

>L6> GALR>A?I' "CL4'EL;;';-M C M I A F>DL<68.'
I A 4 DL<8.' D E >.
I6 37-''8<I6% 83' ' E

>I=4TLA'>A?>'F,A=4T=" @'M'|1';' DF > .
G2 9'8 5' ;'J1' L' 6'' 4'6 5' ;'J'' I '8 1'' F'#- 6' ''
" 1- '1 "'' d5' "65 8' F7' 621' C'-26' F6(1'' G 23('('
T(1''8<a-72'I '8 17'0 (3 '#7 21

>,=;EA=F:'IA"@F=4'4"C[L;'" C '>7M' DI'4'>.
F 0'' ' '9 6-(8'"62W'8<2' ' E' =8<2#28<2852'M256' ''
-(8' (' 2-2 1(8'T7(9'1'' 8-2<4-'-21'& 6 ' '
* '('5 6, #,' '(# #'1 #'8<.

>,=;=>'";LQ"@MLA' 'D"' '>.
M282 7(624'

>,=;;=C?AE'GL?AGL'" 3 3'C " 'E F;' DG'G'>.
E '6'8<E '6"5-1'' I 172 'T'J' (''T-721'%" ,0''
R 25' ' E

>,=;;=C?AL'4=A'R";TLA'GL?AGL'IA"@:'E"AT';;M'
MF;' DR'G'I'>.
"<8 '6- ' , 37' F(-'(' "<9 '6-' 1<5-(8' F'8(8'
;'J'. " 'G L5-621'1-5'6 1<5-(8

>,=;;=>4'F"T,LA=@L'EL"TA=FL'DC 1' R' "6 1(8'>7 66#1.
' DG'E'>.
;(1'Q 6=='' C' 2'"8-(82--2' A(024' K8 5(9

>,=;;=>4' 7'F,"A;L4'4T"@;LX' DF'4'# .
-726 2<==''' L<9 88<'= (81<2' L<J' <'-72'F(8 211('

>,=;;=>4'>A?I'ALG=@";M' R=;;="C' C " ' M 4p'I ;4'
DA'R'>.'
"63'2

>,=;;=>4'R";TLA'";=4?@'C "' DR " >.
M'#6(9'5'' T-621' (',(8('' G28-629'8'' +45' C27292-'
",'' C2--2 8 57'' d5' L -(#2'], ' @C@ @* ^'P T29#2 1'
' E' '5?0#1'' 21-928-1'' @ 2026883 28K2<'I' 1-'' d5

>,=;>?TT4'ELAT,"'4K LL4' 6 "' DE'4'>.
G2 9'8 '. 0 # "'' A(J' ' 'IL, '' 45'8< 8 '8'
F B'-(8

G 4B 'G BN'" NNB A' & ' A 'A/' "'G'
I(21-1''8<I(21- 'L # '* #,

>=TC"@'F,"A;L4'CKAA"X' DF'C'>.
A(J 83' H

>=TT'R";TLA'C=81-FL'C ;C L' DR'>.
F '821

G 'G' >'8 K ' '%K+''$ ' 8' '>-.
4'##7(

G ?&&3 ' 3 ' 4 3/'& ' 'G
"6 N<-72'G 2'-'' "836(4'W(8'F7 (8 562'' E2<2

>$F?F:'ALG=@";M'=@@L4'>Y 4'I ;4' DA'='>.
F28- #2<2' L' J 3' , 02 8'-(8' C 9 5 '' C-2' 45(# (8''
4# <2 1' T 6(0-21'' d5

>?MC?AL'IA"@:'C "' DI'>.
" -(9'-5' R -83' > 29(8-(8' A2- (5(38-(8' T'062g
- 8 83

>?K"AM'>A?>'";ELAT' IALMLA=F:' C " ' I A , 1;4
D"'I'>.
L836 17' , 1-(' ==' '8< Q===' + " 0 E' L6 B'02-7'
O 228' ,28 ' ===''' L<J' <' =''' E 3762 ' ;(<''
F '892'' F (9 J266' T7(9'1'' >' 2 ' C'--72J'' 4(92 12-'
M 2'(''R(612 'F' <8'6''8<(-72'0(3 '#7 21'('-72#2 (<

I ' '";IALM'R=;;="C'C "' D"'R'>(.
E 0K(3 '#7' '8< E 06 (6(3'' E(('' E((F(6625-83''
F7' 22'' F(6(#7(8'' =85 8'0 6'' >(6 36(--

>?;;L@'>A?I' ?,@',K@GEAI?AM'C "' D ',''> .
I'8

>?;;?F:'4=A'IALMLA=F:'E"AT';;M'MF;' DI'>(.
F(8- '5-' C' 82'4',29'' 4-2#728'4' 'I 'E' -'' 4J(<P
T(-

>?;;?F:'R";TLA',LAA=L4'C "' DR',''>.
C 112-'"6 2<'<2'' T7'5 2 '

>??;L'LMR"AM'4T"@;LX' DL'4'>*
L3 #-'], ''==' ' E

>??;L'ALG=@";M';"@L'C " '>7M';;M' DA';'>.
R 5, 2' ' E

>??;L'ALG=@";M'4T["AT' DA'4'>.
L3 -'], '='' ' E'G @ 9 19'-51' ' E

GBG3'G' 5'" ':' >':'IM
M'B('F(9#(8<1'' > -8'' T2 #2821

>?#>;ERL;;' R=;;="C' F,"A;L4' C 42' " C=F L
DR 5'>.
E266(J1'' -<E6(J 83'C'57 821

>?ATLA'R',";M"@L' DR','>(.
= 26'8<'% ,' '. ,

GB/ " 3'G' >' $,@'>LAF= ";'C " 'M;--' D '>'>.
28'6' ' E' ;'-8'6-2 '- 2' ' E'G ; 5'8' ' E'G
>7'2<91'''> (#2 - 1' 42W-1'' T2W- '6 F -5 19'' T0 66 1'
"60 1

>?K;T?@'>A?I' LMR"AM'E"G@";;' C " 'M 42';;MT'
IA4' DL'E>.
F(6(1'('"9 9'61' ,'' M' J 8

>?K>"AM=@'AL@L'M'|1';' DA'>(.
" 621' : 83<v '(''E 3 8<''' F7' 621'-72' E(6<'' I '8572'
' F(9-2' ;(' 82' >7,# -72' E(6<'' >7,# -72' G((<''
> (2852' dF

>?RL;;'>ALM A=F:'X?A:';;M'MF;''DI'X'>.
=526'8<'], ' '. # '= # 6 #'' 63 11(8'G <0 '8<

>?RL;;', "AAX' "CL4'IF4' D,' '>.
G6'11

>?X@T=@G' >A?I' ?,@' ,L@AX' C "' M 45' IA4
D , >.
"5(1-51'' G ' -'-(8' ' E' 4(8<

>AL4T"GL'LMG"A' DL'>A.
>(-3'6'= # 6 #'' E(5'32' F'9(281'' G' 2--'' G(8B'3''
;(#21' I29k('' C'8 26 <2' C266(' A 02 (' E2 8'<9'' 4V
2 C '8<'' I '85 15('<2' 528-2'G 6'' '8<(-72'>(-3 212
6-2 ' '0(3 '#7 21'

>A=LE4F,'>A?I'A?ELAT'>7M' DA'G'
G2 9'8';'83 '32

9 @ F L '>A ? I ' ? , @' M X @ E - L X 7 M ' D ' M ' G '
" '<' "11 '7 + E' F7'6<'2' ' M'8 26'7 ' E'G' 4 92 '
'8<4 # 2 '9

>A=@LT';L?@' "FOKL4'6 "Q=CL' DC'> .
"60 2-' ,' 5(-' (8 K2' ?62'81' I2 < 8'8<' M 2' ('
?62'81'G'1-(8'M 2'?' ?62'661'>7 6 #='8<'== 'M 21'('
A2-B'42 382 ''8<'M 21'(' d5

>A=@G;L >"TT=4?@'>A?I' "@MALR'4LT,'C " ' ;; M)'
MF;' D"'4'> > .
C 1- 5 19' >7 6(1(#7 ' > -7'3('1'7 ' E'A2 <'T7(9'1'
7 ' E' 452#- 5 19' 457(6'1- 5 19' 4# 8(B'' T72(1(#7 '
7 ' E' R202 H1';'J' R(6 'F7 1- '8'7 ' E

>A=TF,"AM'AL 'F,"A;L4'C " ' DF'> .
,2 15726'4 'I'R'D ' E' ,2 15726'4 ' 'I'R'7 ' E

>A?H,LA?' >A?I'GL?AGL'R";TLA'C " 'M;-- ';; M
DG'R'> .
T29#62'4 'R K '9' R 6,'9'= '('L836'8<

>K"KQ'IA"@:' DI'>W.
F'9 4' <1' F' '62 ' 2'8' , 3 28(-1

>K;IA=F,'F"A;'>7 M' DF'> .
4-2 2(15(#2

>K@@LTT'>A?I'ALG=@";M'FAK@M";;'C " ' DA'F'> .
C28<26 19

>KA4LA'IALMLA=F:'C " ' DI'> .
4 '52'7 ' E

G? /3 'I' >' $,@ C " ';; M' D '> .
4 '52'7 ' E

G? ' ' 'A3' ' 'I 'G
F2 '86(1'] 4 #,I6#

>XFA"IT'R=;;=" C'>;"@L'I Y 4' DR '>'> .
L33' I2'-72'7 ' !E

>XL 4C=T,'>,=;=>',L@AX'C M 'I A 4' D>',' > 4 .
,' 2 ' R66 '9

OK=F:'AL 'A?ELAT',LAELAT'C " ' DA',' O .
I (2026

OK=GG=@'LMCK@M'FA?4EX'C'" ' DL F O .
F26-'= "6 "#,' 'L# 6 #'' F(6 90''4' 8-' F 57 6 88'
' M <19' I 88C'5F((6'= 26'8<'L(/', 4/('>'- 5 '4-

OK=;;LA F?KF,'4=A'"AT,KA'T ' D"'T'O F .
E (J8'T7(9'1'L<J' <

T4 &' 3 A'& ' '
F2 '9 51'e# '÷6 0' '*)

A"MF;=IIL' ;=LKT F?;?@L;' LC=;=K4' F' ML;CL
DL'M'A .
I'65(8

A"=:L4' IA"@F=4' R--;="C' : ';; M' DI' R '
;28

A"CE"KT'>A?I'"AT,KA'";F?F:'C " 'M4('IA" 4 '
IA4' D" " A .
" ' G '8-'A(02 -' 457(8 26<'L< ' <

A"C4"X' 4=A' R=;;=" C' C=TF,L;;' A;--' MF;
< &
' =5(8 9' #-2'7 ' EG' ; 5'(8 '' >7 3 '' > 1 < '
49 8"7 ' EG' T' 1 1

A"@M";;' ?,@' D A¦ .
> ((2'< 83'7 ' E

A"@M";; C"F= LA'M" =M'C " 'M42' DM'A C .
C(8(9(-'#'P A7(<21 '' 4 0 # " G' 4 <'7'. 0 # " '7 '
E' Y780'0J2

T 3'(! ! $'[B4 '& b?B ' A' < '['&'
C257'8 51'. # '7 ' E

A" L@4TL=@' >A?I' LA@L4T' GL?AGL' C " ' >7 M
DL'G'A .
C'# D J' E

A"R;=@4?@'AL 'GL?AGL'C " ' DG'A .
,2 (<(- 1'7 ' E

A"R;=@4?@' 4=A' ,L@AX' FAL4R=F:L' E"AT' G F E
D,'F'A .
E'3<'<' L #7 '-21'7 ' E'G' =1 '7'8'] , '' : <1-'8'
7 ' E

"X;L=G,'T,L'A=G,T',?@';?AM' DA .
" 3(8' F'# 66' '"5- (8' 7 ' E'G' M '5- (8' (' ; 37-'
=8-2 2 2852' (';37-' 4

AL"M'F,"A;L4',LAFK;L4';; M' '4 '
" 57'2(6(3 '' M 8 83' 211261

ALF;K4'L;=4LL' 3h'
I 2'

ALMM"R"X'R=;;="C'I=MM="@'C " ' DR'I'A .
@(J' '] , ' ""I * I

ALMR"X'GL?AGL'R=;K"C' 3F'R'A .
>2-2 10 3' F'9#'38 7 * f * fIE'G' 42 28' M' 1H' E'-- 2'
4728'8<('7' '662'F'9#'381'' \ # #,,'7 ' E

ALMR??M'4=A'E? LAT?@'M 45'C =81- C L 'I A 4 DL< 8 .
DE A .
"1#7'6-'E - 928'@'#7-7'' ?B(2 -2 '>' ' 8'>2- (62 9'
'126 82

ALL L',L@AX'MF;' D,'A .
G B(-'7 ' E

ALL L4',?@'R=;;="C'>LCELA'MF;' DR'>'A .
"- 81(8'4 ',29 '"'' E'66'852' (78' I(W'4 'R 66 '9''
G 2 '4 'G2(32'' @2J'Y2'6'8<' (326'4 ' 6 1

AL=F,'LC=;'M(5 1' DL'
, 83' '= # 6 #'7 ' E

AL=M'F;LCL@T'I;4'IG4'IA4' DF'A .
>'6'2(0(-'8 ' #

3 A'/ ''"3B "3' A' "'
>(- '- 2'' T 82

AL=M'>A?I' "CL4'4C=T,'C " ';; M'M;--' D '4'A .
O 8-6'8'' A 78 28' M' <' 4 7 1' =-'6 281'' T02 1''
T ' '8'' T 0 82' R --280'57'M'8 26"602 -' d5

AL=M',?@'R,=TL;"R';; M' DR'A .
G 2262',('52' *

AL=;;X'" ' "M"C4' D"'" 'A .
T 112 '8<'I'8p(1

AL@M;L' ";IALM' E"AT?@' C " ' M42' I;4' IA4
D"'E A .
"83(1#2 91'7 ' E' "##62' E(-'8'' F(5('' 'G'
F(22' '' I6(J2'' I -'' ;2'' >6'8-1'(,,!

AL@T?@' ";LQ"@MLA'R??M'C " ';; E' D"'R'A .
" 0 - '- (8' F(9#281'-(8' F(#('6 > 8 17928-' G (8<
A28-' ;'8<6(<'8<T28'8-' C'W 91';23'6' A28-' T7 6(J'
;(<' [#

ALX@?;M4'>AOI'?4E?A@L'C " ';; M'C =8i-F L)'I , 4
D?'A .
; 0 5'-(8

A,?ML4',?@'EA"MI?AM' DE'A .
4' 831'E'8 1'L #'* #,

A,?ML4' "CL4'I?AM';; M' DT'I'A .
"<'91'F'I

A=F,"AM4'>A?I'A?ELAT',";;?RL;;';; M' DA',' A .
? 2 < p11 83

A=F,"AM4?@' >A?I' F,"A;L4' IA"@F=4' " C ' >7 M
DF'I'A .
"65(--'"*'E'' "65(--';'C'' I 1 2' (78

A=F,"AM4?@'AKIK4'EX"C'>7 M' DA'A'A'.
F(8-7'7 ' E
! K$ ';!''(! ! $'# 5 '5 #' ('#''!
C(1'5'4 # '

A=MGLR"X'>A?I'R=;;="C'C " ' ;; M'M;--' M42
DR A .
"57'2'81' F26-'5 6 G' ,'661-'--' T7 '52' . # '
&# #,'' 6'8('

A=;LX' ?,@'"T,L;4T"@';"KA=L'C " ' + '"';'A .
@21-('81'D ' E

A=4T?A=' LC"@KL;' ?4L>,' >7 M' "11(5 C =81- F L'
DL A .
"6 9 8 9

A?ELAT4"K4TL@' 1 ' (! ! $' K ' ' T
' MF;'IA4' DR F'A " .'
"66(1'7 ' m E'G' C2-'66(3 '#7 '7 ' E

A?ELAT4?@'GL?AGL'FA??C' DG'F'A .
"026' <' D J' E'G' ,(0021'T7(9'1'7 ' E

A?ELAT4?@' 4=A' GL?AGL' 4F?TT' C > ' : F 4 = ' MF;
DG'4'A .
:' 1-'8

B 3 /B 'I' >' ?,@'GL?AGL'C " '>7 M' D 'G'A .
G2 #'8';-2 '- 2' G(2-72' G 66#' B2'' ,2 82'7 ' E'
;211 83'7 ' E'G' C2 1-2 1932'' 457~62'' R 26'8<' d5

RA?@G' >A? I ' a B "3' C2 : =@@?@' I A DF'8'<'.
' DG ' C ' R .' ' '
(A '] , ' '1# #

RX"TT' ' R)' " C =81- F L' D ' R ' R .
>'#2 ' 4 6! 6 #

< @ 3 ' $ 8 ' : ' ' 4 3 @' / ' 4 ' < 6
@2#'6 D J' E

X?A : L ' ; =LKT F ? ; ' , ?A"T=?' "AT , KA ' F % ' D , ' " ' X .
A' 6J' 1' ,0' o ' '=#" ,

X?A : L ' > , = ; =>' F , L4@LX ' C " ' D> ' F ' X .
G 8#(J<2 ' >6(-' "882' O 228 ' " 3 66 ' L ' 61 '8< M 21' ('
E(62 8 ' "8 '2' E(6 830 (2' F '-72 82' ?' " '3(8 ' F7' 621' = '
'8< == ' F6' 28<(8 ' 1-' L ' 6' (' F (8 R2K ' ?6 2 ' ' . '
I '6 6'8<' ; (<' ;' <' " 570 17(#' 4- ' (<' '82' 4 ' , '
'8< (-72 ' L836 17' 0 (3 '#7 21' (' -72' \c-7' '8< \`-7' 528- 21

X?K@G' " ; LQ" , MLA' EL ; ;' I = ; 4?@' D" ' E ' I ' X .
M'852' ' E

X?K@G ' AL ' R = ; ; =" C DR ' X .
> 210 -2 '8 19

@+ ' ; ! ' ' K ' 6 ' 5 ; 8 I ' # ' K ' 6
" 37'8 1-'8'] , ' ' F7 8 ' '] , ' 7 ' E' ' : 06' '
: 7 '8' ; 7 '1 '' ' E' ' >26 ' C ' 5(' ' E' ' > 21-2 ' (78' '
A' 9 1 (' ' A 55 ' C '--2(' ' d5

&\ C C A ' G ' I ' " C 6E1-GE ' AY 4 ' DG ' I ' Y .
E 15 -' ' E 2'<' ' F(8 2 5- 4' \ I 6(8 ' '8<' A6(' C '8 '5- 2' '
G '8' 21

Y=C C EA@ " ; =F L ' D" ' Y .
F' #28-2 ' C '

0#' 5 ,' ' Y# ,' #' 0#' * " 6 #' # ' ' , "6 ,0' 0#' (+6

T , L' L@M

& # '+ ' ' X ' ' T ' & / " +6 "0

□□ □□

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